

BULLETIN OF RHODE ISLAND STATE COLLEGE

VOL XLV, No. 1

REPORT **of the** **President and Other Officers** **1947-1948**



JANUARY, 1949

KINGSTON, RHODE ISLAND

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*Died October 27, 1948

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November 20, 1948

My dear Governor Pastore:

On behalf of the Board of Trustees of State Colleges, I take pleasure in submitting herewith the Annual Report of the President and Other Officers of Rhode Island State College for the year July 1, 1947, to June 30, 1948.

Sincerely yours,

FRANCIS I. McCANNA, Chairman

Board of Trustees of State Colleges

THE HONORABLE JOHN O. PASTORE
Governor of the State of Rhode Island
State House
Providence, Rhode Island

Report of the President

To the Board of Trustees of State Colleges:

CONTINUED growth has characterized the college during the past year. It has been a normal, wholesome growth—in enrollment, in physical plant, in educational program, in public interest, and in service to the state.

Simultaneously the problems of administration have increased, made the more acute by the unstable economy of an inflationary period. In some respects, it has been, in fact, the most difficult year of the past decade. We are in a stage of transition from the emergency when our efforts were centered upon winning the war to an uncertain future with its unpredictable requirements of the Atomic Age. We are still carrying the unprecedented load laid upon us by the demands of post-war years. Such conditions have called for careful planning, constant resourcefulness, and sober decision. The manner in which we have met our obligations in recent months is recounted in the following pages.

ENROLLMENT

We opened college in the fall of 1947 with the largest enrollment on record—nearly 2200 students on the campus and over 300 freshmen in the Providence Center. We admitted 724 new freshmen from approximately 2200 applicants. Again, in the fall of 1948, we admitted approximately 650 freshmen from a total of nearly 2000 applicants, and our total enrollment passed 2500—over 2200 on the campus and nearly 300 at the Providence Center. The precise enrollment figures are given in the report of the registrar (page 37).

All this is part of the flood of post-war college enrollment. Often we are asked the question, "Will this increase continue?" and, "Should not the college set a limit on its enrollment? Is there not danger of too rapid expansion?" In reply let me say that Rhode Island State College has been conservative in its

*In the main, this is a report of the fiscal year July 1, 1947 to June 30, 1948. However, to bring it more nearly up to date, reference is made in places to developments subsequent to July first up to the time of writing.

expansion as compared with other institutions. Many state institutions, in response to the pressure from veterans and non-veterans during the post-war period, have permitted greater crowding and larger expansion than we have. It is true some of our classes have been overcrowded. In fact, in certain departments, we were overcrowded in proportion to facilities prior to

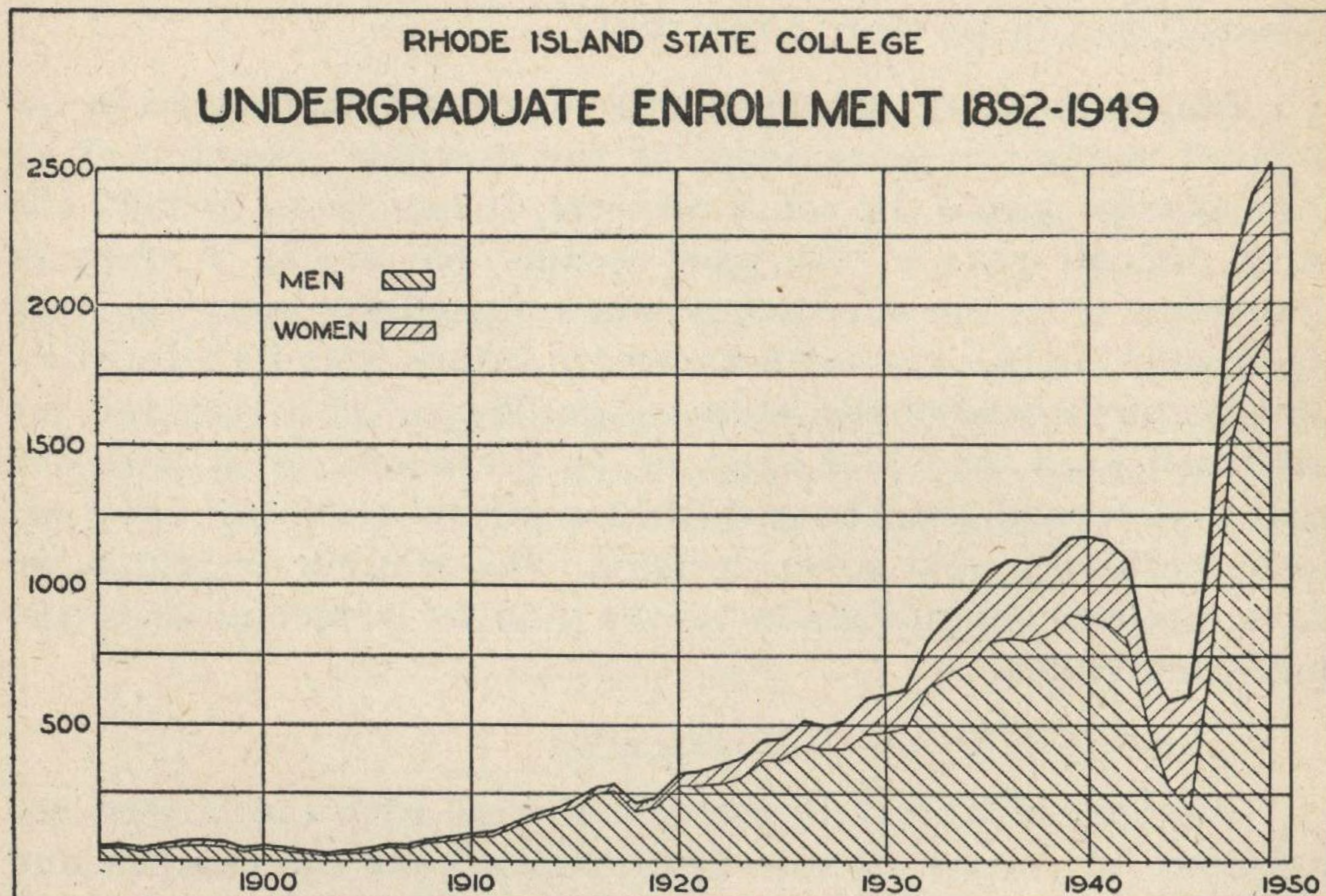


Chart 1 - Undergraduate Enrollment, 1892-1949

the war. However, thanks to the acquisition of Quonset huts and other surplus property, and an 80 per cent increase in the size of the faculty, we have been able to absorb the increase without sacrificing academic standards. We have maintained the faculty-student ratio at a figure only slightly above the prewar ratio and considerably lower than that found at comparable institutions.

However, we have probably passed the peak. The number of applications from veterans fell off markedly this year. We expect to graduate a large class next June. According to present plans, provided we do not have greater losses of upperclassmen

than are now anticipated, we shall probably hold the entering class in 1949 to about 650. After the graduation of the record class in 1950, we should level off, for several years at least, at approximately 2200 undergraduates on this campus. We believe that the time has come when we should hold down enrollment until our permanent building program can catch up, and until

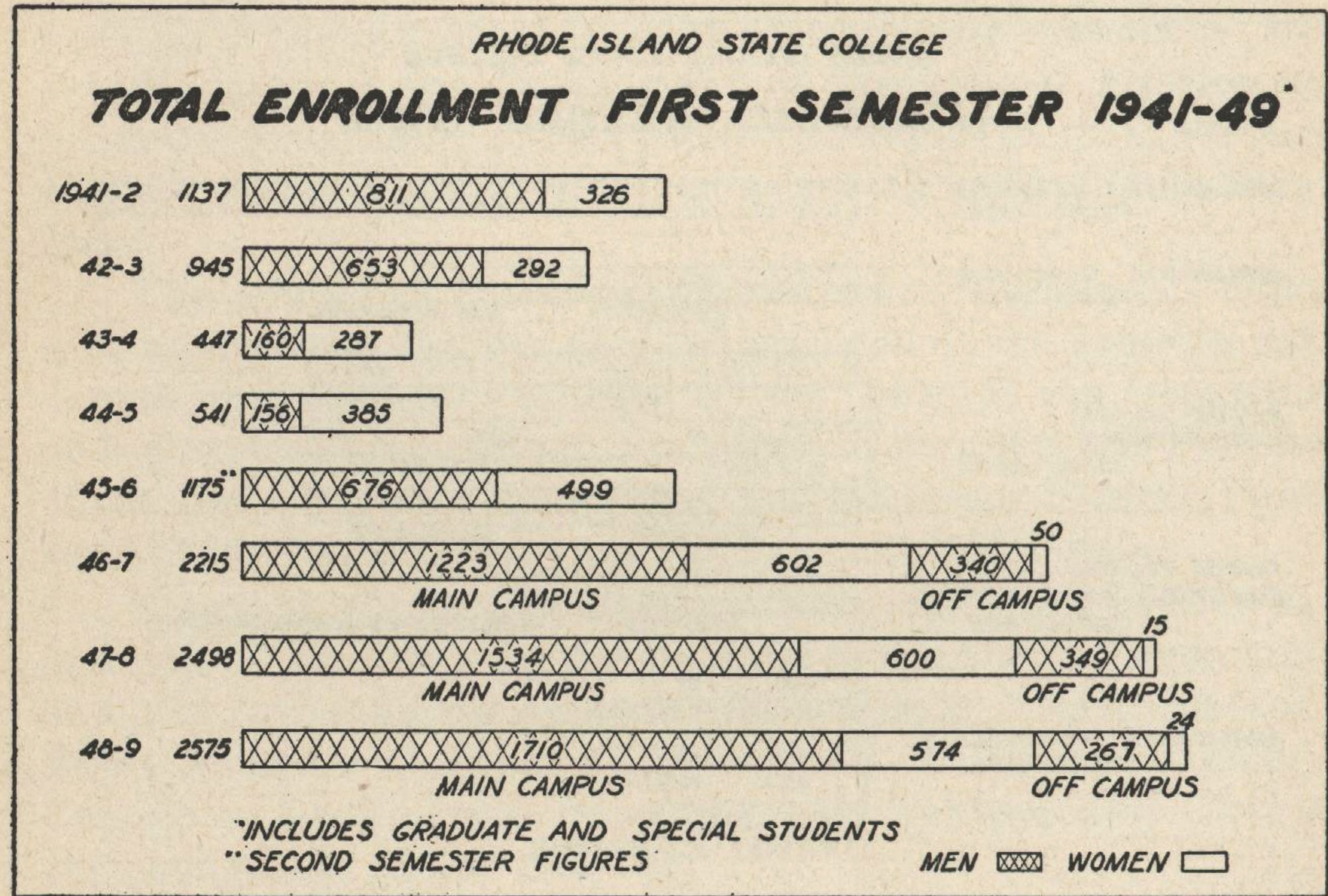


Chart 2 - Total Enrollment, First Semester, 1941-1949

we can replace the temporary buildings with permanent structures.

Beyond this, the future of the college will depend upon many factors, some of which are discussed in the pages which follow, that cannot be fully forecast at this time.

PROVIDENCE CENTER

For another year it was necessary to continue the Providence Center, where a portion of the freshman class receives instruction paralleling that on the campus. Thanks to the cooperation of the Providence School Committee and other school officials, the Oliver Hazard Perry Junior High School was again made available to the college. The spirit of the students at the

center was excellent, and although they were deprived of the campus experience, the quality of their academic performance compared favorably with that of their classmates at Kingston. Still, the Providence Center is regarded as a temporary expedient, and we look forward to closing it just as soon as adequate facilities are available at Kingston.

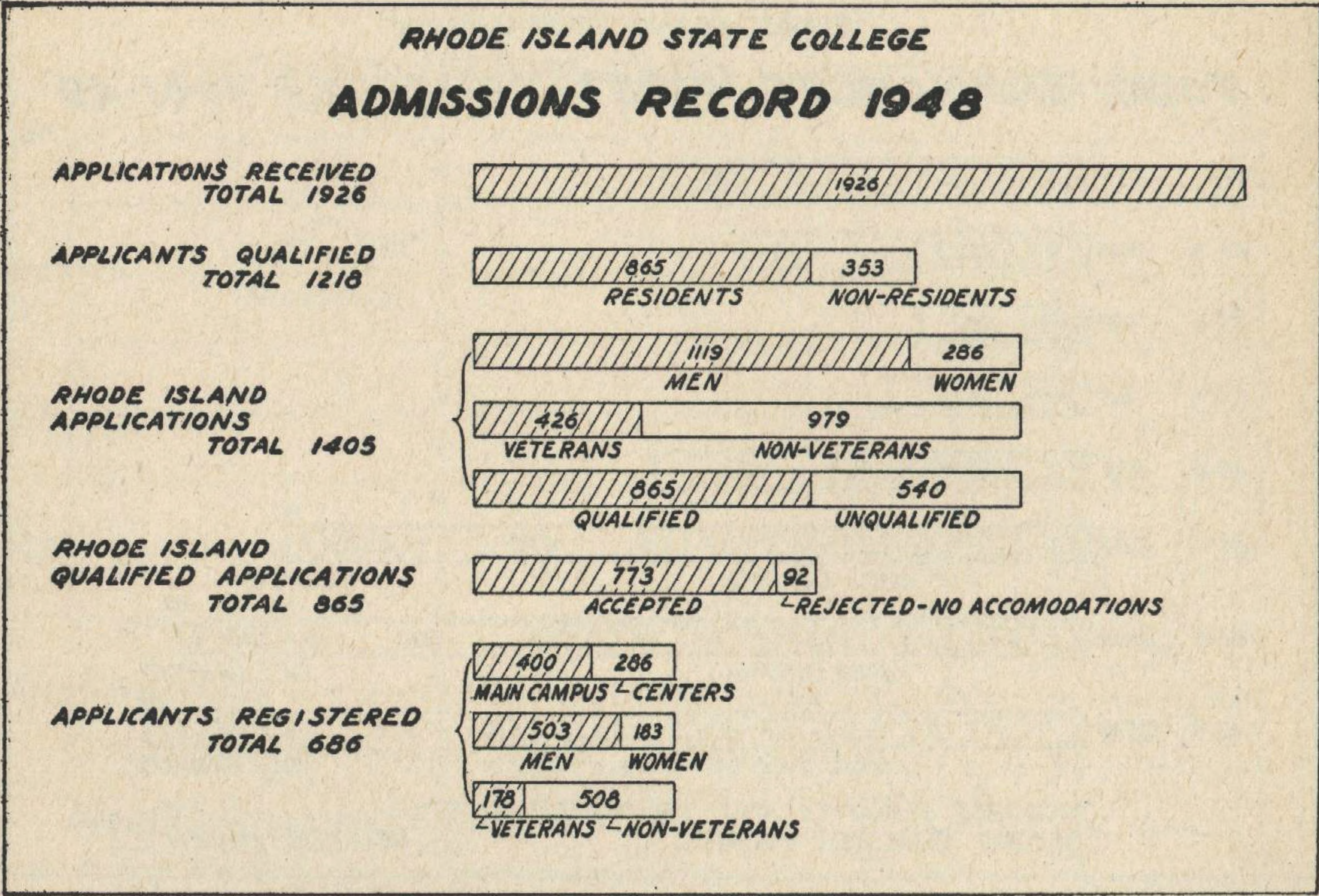


Chart 3 - Admissions Record, 1948

FACULTY

The last year has witnessed important changes in our faculty. Dr. Henry B. Potter, college physician, reached compulsory retirement age May 1, 1948. He was succeeded by Dr. S. J. P. Turco. Also, three of the older members of the faculty accepted retirement as of September 1, 1948, namely Professor Crawford P. Hart, Professor Calvin Coggins, and Dr. Nicholas Alexander. These faithful colleagues were members of our staff 43, 22, 34, and 16 years, respectively, totaling more than a century in service of college and state.

Dr. T. Stephen Crawford, formerly acting Dean of Engi-

neering, and Professor George Ballentine, formerly acting Dean of Business Administration, were made deans of the respective schools and have done much to build up the staffs within these schools. Professor Arthur A. Collard succeeded Professor Frank W. Stubbs as head of the Department of Civil Engineering. Dr. Harold E. Graves came to us from Worcester Polytechnic Institute to head the Department of Chemical Engineering. With the opening of the fall semester of 1948, Professor Francis W. Hoyer became head of the Department of Mechanical Engineering. Since the resignation of Dean Royal L. Wales in 1946, Professor Edson I. Schock had ably served as acting head of this department.

The School of Business Administration has been departmentalized, with Dr. Winfield Briggs head of the Department of Accounting, Professor Mabel Dickson, head of the Department of Industrial Management, Professor Robert Rockafellow head of the Department of Economics, and Professor Herbert Palmer head of the Department of Marketing and Advertising.

Likewise, the School of Home Economics has been departmentalized. Dr. Dora-Louise Cockrell is head of the Department of Child Development and Family Relations, and Professor L. Edith Andrews of Foods and Nutrition. Professor Dagmar C. Gustafson, head of the Department of Textiles and Clothing, resigned at the end of the year.

In the School of Agriculture, Dr. Charles Norton has been made head of the Department of Animal and Dairy Husbandry, and Professor William Wiley, head of the Department of Poultry Husbandry.

During the war Dr. Charles Fish was given leave for service in the Navy, and Professor Robert DeWolf ably served as acting head of the Department of Zoology. During the past two years Dr. Fish, while conducting research at the Oceanographic Institute at Woods Hole, served as part-time consultant in Marine Biology. I am happy to report that in September, 1948, he returned to us on full-time duty as Professor of Marine Biology and Director of the reactivated Marine Biological Laboratory on Narragansett Bay. Dr. Herbert Knutson, who was on leave for service in the Sanitary Corps during the war, and who during the past year divided his time between the college and the State

Department of Agriculture, has returned to us on a full-time basis as head of the Department of Zoology.

A year ago the Board of Trustees adopted a policy of sabbatical leave for members of the faculty. Dr. Daniel H. Thomas, head of the Department of History and Political Science, is the first member to take advantage of this plan. He will be absent during the year 1948-49, traveling in Europe and doing scholarly research, particularly in Belgium. During his absence, Dr. William Itter will serve as acting head of the department.

BOARD OF TRUSTEES

The year witnessed further changes in the personnel of the Board of Trustees. In August, 1947, Governor Pastore appointed Dr. Joseph Belliotti, Providence surgeon, to the vacancy caused by the resignation of John B. Dunn. Dr. Belliotti proved to be an exceptionally valuable member of the Board. His sudden death in October, 1948, was a serious loss to the college. He leaves a vacancy which will be difficult to fill.

In June, 1948, Clark F. Murdough, President of Edgewood Junior College, was elected to succeed himself for a three-year term as alumni representative of Rhode Island State College. The term of Chairman John F. Brown, alumni representative of the Rhode Island College of Education, likewise expired in June. He was succeeded by Miss Sara Kerr of Central Falls, elected by the Alumni Association of the college. At the subsequent reorganization of the Board, Mr. Francis McCanna, former Vice Chairman and Secretary, was elected Chairman of the Board; Dr. Belliotti was chosen Vice Chairman, and Miss Kerr, Secretary.

VETERANS ADMINISTRATION

It is a pleasure to acknowledge the continued cooperation of Colonel Davis G. Arnold and his associates of the Veterans Administration. The past year saw the peak enrollment of veterans, with 1402 individuals registered during the two semesters. At the opening of the year 1948-49, the number fell to 1205.

Our contractual relations with the Veterans Administration have continued on the basis of instructional cost. The national program of veterans education has proved to be one of the most

significant steps in educational history. The performance of the veterans generally and the success of the project, so extensive and sweeping in scope, have been beyond the expectations of educators and of government officials alike.

STUDENT LIFE

One of the busiest men on the campus this past year has been Dr. John F. Quinn, our new Dean of Men. In addition to handling the usual dean's duties, he has served as counselor to the veterans. Under his direction, together with the able help of Miss Evelyn Morris, Dean of Women, and Mr. Chester Berry, Director of Undergraduate Activities, substantial progress has been made in developing a wholesome, well-knit program of campus life. Held in proper balance, participation in extra-curricular activities may become a valuable adjunct to the student's formal academic program enriching his educational experience and thus better fitting him for life in a democratic society.

More and more our students have been brought into cooperation with the faculty in discussing college policies and planning programs. There has been a marked development in fraternity life. The fraternity houses are filled to capacity. Two new local fraternities were chartered, Tau Sigma and Phi Epsilon Tau, which subsequently received charters from the national fraternities Sigma Pi and Tau Epsilon Phi, respectively. Phi Sigma, founded as a local in 1925, was chartered as a chapter of Phi Sigma Kappa. Two of our local sororities were selected for affiliation by two of the older established national sororities, Alpha Delta Pi and Alpha Xi Delta, and were installed with appropriate ceremony. Other local fraternities have taken steps toward nationalization. It is gratifying that national fraternities, both of men and of women, recognized as among the top-ranking organizations in age, prestige, size, and character, have looked to Rhode Island State College as a promising field for colonization and expansion.

HEALTH SERVICE

In keeping with the growth of the college an expanded health service was inaugurated in the summer of 1948. Through the cooperation of Dr. Joseph L. Belliotti and the Board of

Trustees, a program was organized in keeping with the best medical practices of college and university health services, providing additional time for the college physician, greater availability of nursing service, and periodic health examinations of food handlers on the college campus. Also, a staff of medical consultants, consisting of leading Rhode Island specialists, will be available when needed. This enlarged service is provided at no immediate increase in the general fee.

The need for improved infirmary quarters has been pointed out, and the building program of the future contemplates an adequate infirmary.

Supplemental to the regular health service for students, the Trustees also approved an optional plan for accident and health insurance to the members of the student body. This type of insurance, which provides a liberal protection at a low cost for all students who wish to take advantage of it, is becoming increasingly popular at colleges and universities.

ATHLETICS

Steady progress has been made in returning to a normal athletic program. The 1947 performance of our football team was creditable but not outstanding. In cross country, track, and basketball the traditional excellence of performance of the State College teams was upheld. Again we have to thank the alumni members of the Athletic Council for constant interest and able service. In June Mr. Hugo Mainelli of the Class of 1930 was elected to succeed himself as alumni member.

MILITARY TRAINING

We are now experiencing a renewed interest in military training. As the numbers of nonveteran students increase, larger numbers are enrolled in the Reserve Officers Training Corps. Likewise, the revival of Selective Service, and the provision for the deferment of a quota of students who will agree to enroll in Advanced R.O.T.C. as part of the national defense plan, gives special importance to this branch of the college work.

During the war the R.O.T.C. enrollment fell to a low point. Military training was assumed by other agencies. Immediately following the war the numbers continued low because the majority of the students were veterans who were not required in

the R.O.T.C. Now the R.O.T.C. unit is approaching its prewar status. The advanced R.O.T.C. course was reactivated in February, 1946, with 19 enrollees—all veterans who volunteered to take up the advanced work. Since then, the enrollment has steadily increased—last year to the number of 429. The enrollment in September, 1948, was in excess of 600.

From 1940 to 1943, as an average, 30 advanced R.O.T.C. students per year were commissioned. At the close of the past year 29 had received commissions as reserve officers since the reactivation of the advanced course, in infantry, signal corps, corps of engineers, and chemical corps. In September, 1948, a Quartermaster's unit was established at the college in addition to the regular Infantry unit. The value of the government property assigned to the Military Department is now over \$100,000 as compared with \$50,000 during the war years.

Since September, 1947, freshmen enrolled at the Providence Center were given instruction in first year basic R.O.T.C. program, equivalent to the instruction on the main campus. During the year also the R.O.T.C. band was organized, and the honorary society, Scabbard and Blade, was reactivated.

Much public interest has been shown in the R.O.T.C. unit. Ten prizes donated by civic organizations in the vicinity of the college were awarded during a special drill session last spring.

SUMMER SESSION

The past year marked further progress in making the State College a center of summer educational activity. The total enrollment in the Summer Session of 1947 was 773; in 1948 it was 696. The Music Camp and the Art Workshop set new standards of performance. An exhibit of the works of the Art Workshop in Helme House, headquarters of the South County Art Association, attracted wide and favorable attention.

Besides the students enrolled for formal instruction in Summer Session courses, hundreds of Rhode Islanders came to the campus during the summer for attendance at conferences and institutes held in cooperation with numerous organizations and groups. Outstanding among these was the Institute on Good Government, arranged with the advice and encouragement of Governor Pastore, and held in cooperation with the State De-

partment of Finance, the Department of Social Welfare, the Rhode Island Public Expenditures Council, and several other associations of state and local public officials. The attendance of 250 was evidence of an enthusiastic response and a popular demand that the institute be made an annual feature of our summer program.

BACHELOR OF ARTS DEGREE

Last January the college bell in Davis Tower in the spirit of victory announced to an elated college community that the Board of Trustees had authorized the introduction of a liberal arts program leading to the Bachelor of Arts degree. This was a goal for which alumni, students, parents, and other friends of the college had long directed their efforts. It presages a new phase in the life of the college. In keeping with the spirit of the Morrill Act, Rhode Island State College now joins the other land-grant institutions in a broadening of its curriculum with emphasis upon the humanities and the liberal arts to serve the growing number of students interested in a liberal education, as a foundation for education in the professions, and as preparation for an enriched life of useful citizenship. Instruction in Latin was offered at the opening of the fall semester, and it is planned to begin courses in Philosophy in the second semester, with the expectation that the Bachelor of Arts degree will be given for the first time in June, 1949.

COMMENCEMENTS

As an aftermath of the wartime accelerated program and the irregular class standing of veterans whose college careers were interrupted by the war, a group of 66 undergraduates completed the requirements for graduation at mid-year. At the Commencement exercises held February 1, 1948, the Honorable John Nicholas Brown of Newport, Assistant Secretary of the Navy for Air, was the guest speaker, and the honorary degree of Doctor of Laws was conferred upon Admiral Raymond A. Spruance, President of the Naval War College at Newport.

At the regular commencement on June 13, the graduating class began to approach prewar numbers; 275 graduates received the Bachelor of Science degree, and several graduate degrees were conferred. The Commencement address was de-

livered by the Very Rev. Robert J. Slavin, O.P., President of Providence College. The honorary degree of Doctor of Laws was conferred upon Father Slavin and the Honorable John Nicholas Brown; and the honorary degree of Doctor of Science was conferred upon Dr. Reuben C. Bates, Providence physician, of the Class of 1913.

EMPLOYMENT OF GRADUATES

One of the most rewarding experiences in administering a college is in seeing the graduates take their places in the business or professional world for which they have been preparing and in seeing them succeed in their respective careers. To aid in the transition from classroom to office, factory, or farm, the college conducts a placement office. The Director of Placement becomes acquainted with the students while they are undergraduates; he aids them in finding part-time employment if they need help to meet their college expenses; he becomes familiar with their personal qualifications; he advises them on preparing for post-college employment. In the latter half of the year he invites industrial and business firms to send their representatives to the campus to interview members of the Senior Class. He provides lists of candidates to prospective employers, and puts them in touch. The value of such a service is beyond estimate.

During the fall of 1947, most of the 350 members of the senior class registered in the Placement Office and were interviewed by the Director. Aided by the information obtained, the Placement Service arranged for 628 interviews with representatives of recruiting companies, of which one in three resulted in a job offer.

At graduation time more than eighty per cent of the male seniors and over ninety per cent of the senior engineers had accepted positions that ranged in salary from \$225 to \$300 per month. For the class as a whole, which included numerous women who were contemplating marriage, the number employed before graduation was seventy-five per cent. Approximately ten per cent of the class had been accepted for graduate study in professional schools or universities of their choice.

In addition to the service to seniors, the Placement Office

during the year was instrumental in providing part-time employment for more than 300 students. The service was also placed at the disposal of alumni who were interested in improving their employment status; it placed undergraduates in touch with summer jobs and off-campus part-time jobs, and assisted the wives of married students in finding local full-time employment.

MEETINGS ON THE CAMPUS

The college continued its traditional function of serving as host to various state and regional associations throughout the year. Limitations in facilities make it impossible for us to respond to all requests of this sort. However, we aim to be of service to organizations whose objectives are primarily educational, insofar as our facilities permit. A list of outside groups which were entertained on the campus during the year includes the following:

1947	
August 1	Rhode Island Potato Growers—Field Day
August 5	Rhode Island Dairymen—Field Day
August 7	Southern New England Chapter of Soil Conservation Society
August 7	Point Judith Yacht Club—Evening Meeting
August 14	Rhode Island Fruit Growers—Clambake
October 9	Life Insurance Sales Congress
October 17	Personnel Institute
October 22	Rhode Island Turkey Growers Association—Field Day
November 18	Meeting of Rhode Island High School Principals
November 21	Meeting of Guidance and Personnel Group of Rhode Island
November 22	Rhode Island Intercollegiate Press Association
November 25	Play—"The Leonard Family," presented by the Parent-Teachers Association of Kingston
December 4	South Kingstown Chamber of Commerce—Dinner Meeting
1948	
March 6	Rhode Island High School Model Congress
April 9-10	All College Model Congress
May 4	Meeting of New England Conservationists—Conservation Day
May 5	Meeting of Rhode Island School Superintendents Association
May 14	Meeting of Rhode Island Section of American Chemical Society
May 15	Annual Spring Meeting of Rhode Island Home Economics Association
May 19	Vocational Agricultural Field Day (High School)
May 19	Meeting of English Teachers Association
May 26	Meeting of Rhode Island Social Studies Group
June 16-18	Rhode Island State Conference of Social Workers
June 21-24	Rural Women's Camp
June 26	4-H Counsellors' Meeting
June 27-July 2	4-H Youth Camp
June 28-30	Conference of Rhode Island Baptist Women

RESEARCH

For the services of the Agricultural Experiment Station your attention is directed to the customary annual report published separately. However, I should mention here some outstanding contributions made by our agricultural research scientists. Our grass turf experiments continue to attract nationwide attention. During the past year notable progress was made in the development of compounds for the control of weeds and crab grass which long have pestered all who tried to grow a patch of grass for a lawn. Our Department of Plant Pathology also is gaining in the fight against the Dutch Elm disease—which threatens to wipe out the American Elm even as the Chestnut blight some years ago made the American Chestnut an almost extinct species. In our laboratories, an anti-toxin has been developed which gives promise of controlling the disease through a new therapeutic type of treatment. It is too soon to be sure of the results, but at least the progress is promising. These are just two examples of research which may have far-reaching influence upon the economy, not only of our state, but of the entire nation.

We can report progress also in our Engineering Experiment Station. With limited facilities and with the extraordinary demands upon the staff for teaching, we have made little more than a beginning. The current studies upon the industrial uses of Rhode Island coal, upon a free-moving magnetic shuttle in weaving, upon the corrosion of water pipes, and upon sewage pollution are indicative of the types of service we aim to render Rhode Island industry through the Engineering Experiment Station. In the field of basic research, our Department of Physics is cooperating in a study of the upper atmosphere under contract with the U. S. Air Materiel Command.

During the past year the School of Engineering has invited representatives of Rhode Island industry to visit the campus and to speak to student groups and to the faculty on various phases of industry. Likewise, the Advisory Council of the Engineering Experiment Station has encouraged the college to develop its extension and its research services particularly to meet the needs of Rhode Island industry. With the new personnel already available and with the additional funds we hope to procure from

both public and industrial sources, we should make the Engineering Experiment Station an even more effective force in the industrial economy of the state.

Much of the research in our Agricultural Experiment Station, and some in other departments, is financed by grants, under contract, from industrial corporations and other agencies from outside the state. It is gratifying to have the calibre of our scientists so widely recognized, but it does raise the question as to why Rhode Island business and industrial interests do not make larger use of the college resources. We must use every proper means of encouraging a close working relationship with the business and industrial agencies of the state and of making our services available to them so far as our facilities permit.

Increasing interest in the need for rehabilitating the shellfish industry of New England has led to the authorization of Federal funds for research on clams and quahogs. Our Marine Biological Laboratory will be admirably fitted to participate in this program.

EXTENSION ACTIVITIES

The necessity of extending public educational facilities to citizens at all age levels is emphatically set forth in the report of the President's Commission on Higher Education, which indicates that in adult education the college finds its "potentially greatest service to democratic society."

The report further states:

An expanded program of adult education must be added to the task of the colleges. This is a vital and immediate need, because the crucial decisions of our time may have to be made in the near future. Education for action that is to be taken, for attitudes that are to be effective, in the next few years must be mainly adult education. . . .

The colleges and universities should elevate adult education to a position of equal importance with any other of their functions. The extension department should be charged with the task of channeling the resources of every teaching unit of the institution into the adult program. . . .

Higher education will not play its social role in American democracy and in international affairs successfully unless it assumes the responsibility for a program of adult education reaching far beyond the campus and the classroom.

The classic example of a successful system of adult education is the Cooperative Extension Service in Agriculture and Home Economics, conducted by the U. S. Department of Agriculture and the land-grant colleges and universities under the

Smith-Lever Act of 1914. It is not too much to claim that the increases in agricultural production effected by this agency prevented famine and contributed vitally to the Allied victory in two world wars. And its peacetime benefits are beyond measure. Rhode Island's share in this activity is told in the separate report of the Agricultural Extension Service, "The Set of the Sails," copies of which are available on application.

Through the Division of General College Extension the college during the past five years has undertaken to extend similar services to industrial, business, labor and other non-agricultural groups. For a detailed account of these educational activities we refer you to the report of the Division of General College Extension later in this volume (page 93).

Our Division of General College Extension has continued its headquarters in the College of Education Building in Providence, and many of the evening classes have been held there. The cooperation of President Lucius Whipple and colleagues in sharing their facilities with us is deeply appreciated. In fairness to the College of Education, however, and in the best interest of our own program, we should have a separate building in Providence which would provide offices, classrooms, and laboratories as a center of extension activities. This need has been recognized by prominent citizens of the state whose active interest and support are a valuable asset to the college in organizing and conducting an extension program of maximum service.

A bill to provide for a national system of workers' education, which had the backing of organized labor, was introduced in the 80th Congress. In recognition of the successful operation of our Workers' Education program in Rhode Island, the president of the college was invited to testify at a hearing on the bill before the House Congressional Committee last April. The bill was not reported out of the committee, hence did not come up for vote. Doubtless a similar measure will be advanced in the 81st Congress, with better prospect of passage.

As organized labor assumes a role of growing influence and prestige in the national economy, sound educational programs for labor leaders and for the rank and file of industrial workers become vitally important. Labor-management problems can never be solved by legislation alone. They will remain as long

as ignorance, prejudice, and suspicion prevail. They can be resolved only on the sound basis of information, understanding, and mutual confidence. The wiser leaders of both management and labor realize that education is the key to the problem. By taking the leadership in such a program, we of the land-grant colleges have an unparalleled opportunity to safeguard the American system of free enterprise through education. Have we not an obligation to the public to exercise our talents to this end?

IMPROVING INSTRUCTION

Among the several problems studied by the Policy Committee, special attention was given to ways and means of improving the effectiveness of instruction. In this effort we have had the hearty cooperation of the Association of University Professors. The members of the faculty are sensitive to the need for a clarification of teaching objectives, for constantly appraising classroom results, for improving teaching technique, for orienting the new and inexperienced teacher, for stimulating student interest and the spirit of intellectual adventure. Co-operative efforts to achieve these ends begun last year are being continued.

PLANNING CAMPUS DEVELOPMENT

I do not know of another department of our State Government that has given more attention to planning and has developed a more complete program for development than we have. Of course, in an educational institution plans are never wholly perfected. They are constantly subject to modification as circumstances change, and circumstances are, in a large measure, unpredictable from year to year.

However, we believe in the principle of planning, and we shall continue to plan. Happily, during the past year we had the cooperation of the State Planning Board and the services of a high authority in landscape architecture, Mr. Justin Hartzog of Cambridge, Massachusetts, consultant of the State Planning Board, at no direct cost to us. Out of our conferences with Mr. Hartzog has emerged a long-range plan for the development of the campus, with the new buildings about to be erected—the

chemistry building, the dormitories, the gymnasium-armory and the projected Memorial Union—all fitted into a carefully conceived scheme.

Visitors from institutions throughout the country are impressed by the beauty of our campus, the harmony of its architecture, its sense of balance and proportion. We propose that in our future buildings we shall maintain these standards. Of course, there are problems in doing so. The ever-rising costs of construction and the shrinkage in the purchasing power of the dollar are nightmares of college administrators and of architects as well. High construction costs, particularly in dormitories which must be self liquidating, have interposed a serious obstacle. However, a way must be found for our building program to go forward. We cannot wait for the uncertain, even improbable, eventuality of material reduction in costs.

In the development of our building program, we worked with the State Planning Board and the Commission on Coordination and Execution of Post-War Programs. The assistance of these bodies whose functions were transferred to the Department of Public Works at the end of the year, is gratefully acknowledged. We are particularly indebted, also, to Mr. Oresto DiSaia, Director of the Department of Public Works, and to members of his staff for the survey in connection with improvements in our water system, for the construction of a parking area, and for valuable cooperation in numerous other ways.

It was with genuine regret that the Trustees reached the decision not to renew the lease for the Kingston Inn for another year. In the critical housing situation, we are keenly aware of the need for the Inn facilities and of the contribution it made to the life of the college community. In spite of our best efforts, however, the Inn operated at a loss greater than could be absorbed in our restricted budget. This left us with no choice but to discontinue the project. Temporarily, until new dining quarters can be provided, a satisfactory solution has been found by remodeling two of the Quonset huts at "Club 400" to provide a separate dining room for the faculty.

MEMORIAL UNION

The improvised Quonset hut student union has served as a popular center of campus life, though congested and wholly inadequate, and has demonstrated the need for an adequate Student Union building. In the effort to raise funds for the Union during the past year, students, alumni, faculty, and all concerned have shown a splendid spirit of cooperation. The Faculty Follies, staged last winter for the benefit of the Union Fund, proved to be not only a success from a financial standpoint, but also was a great stimulus to campus morale.

The progress of the Union fund however has been less rapid than was hoped. At this writing the gross subscriptions amount to approximately \$130,000 toward the goal of \$350,000. The Union is an urgent need if the college is to provide for its students the kind of educational experience appropriate to leadership in modern society. We aim to make the Memorial Union a laboratory in democratic living. It will be not only a lasting memorial to the Rhode Island men who gave their lives in two world wars; it will be a symbol of American democracy and the traditional independence which from the beginning has characterized Rhode Island. It will serve as headquarters for various student organizations, including the Student Senate and other governing groups. One of the principal rooms planned is a Senate Chamber, which will reflect the atmosphere and the functions of the senate chambers of the state and national capitols. Here our students will hold forums, debates and legislative sessions. By thus providing suitable quarters for the students to practice self-government in the traditional democratic way, we believe the college can be a more effective agency for the perpetuation of the American ideals of freedom, for appreciation of our free institutions, and for the preparation of young men and young women to serve as leaders in a free society.

BUILDING PROGRAM

Although no new major structures have yet risen on the campus, during the past year real progress was made in the building program. As a result of the bond issues authorized in the special election of June, 1947, on the recommendation of the

Board of Trustees the State Commission on the Coordination and Execution of Post-War Programs gave the contract for architectural planning of the dormitories to Mr. Albert Harkness of Providence. The architectural contract for the Chemistry Building was awarded to Mr. John Hogan of Providence. More than a year has been consumed in completing the plans for these buildings. The architects conferred repeatedly with the officers of the college and with state officials for the purpose of planning buildings which would perform the greatest service for the college within the funds available. In planning the Chemistry Building, the Alumni Advisory Committee made up of graduates who occupy prominent positions in the chemical industry gave invaluable counsel and advice. They have enthusiastically endorsed the preliminary plans—now nearing completion.

Plans for the dormitories were completed in October, and the contract was let in November. It is our objective to occupy these buildings in September, 1949.

The year's outstanding achievement in the building program was the assurance of the gymnasium-armory. The need for a gymnasium-armory was recognized ten years ago, and the Legislature of 1941 made a conditional appropriation of \$350,000 for the purpose. However, the war intervened, and construction was indefinitely postponed. Increased enrollment and increased costs both indicated a larger building and a larger expenditure than were originally planned, and it was estimated that at least \$1,300,000 would be required for a building adequate to our needs. The Legislature of 1948 unanimously passed a bill authorizing a referendum on a bond issue in that amount in the fall election. Thanks to the endorsement of leaders in both political parties, and thanks to the efforts of our alumni, undergraduates, and other members and friends of the college community, the bond issue was endorsed in the election by the decisive vote of 106,128 to 30,578. A year will be required for planning, and it is hoped that construction may begin before the end of 1949. The 3½ to 1 margin by which the bond issue was approved was a convincing demonstration of the degree of public acceptance accorded the college and its program of educational service to the people of the state.

Besides the normal repairs to roads, buildings, and heating plant, the Department of Buildings and Grounds has removed the maintenance shop from the basement of Lippitt Hall to more adequate quarters in one of the large huts, releasing space in Lippitt for the dining services and for the School of Engineering.

North Hall, a two-story frame structure which was part of the engineering training school at Camp Endicott, was removed to the campus and re-erected through a grant from the Federal Works Agency funds. With its 11 classrooms and 9 offices, it has afforded considerable relief to our congested classrooms by housing the departments of Mathematics, Languages, and Marketing and Advertising.

Progress has been made in installing the new water system reported last year, but difficulty in the first effort to drive a new well has delayed its completion. New lights installed at the athletic field have not only greatly aided varsity football practice, but has made possible an enlarged program of evening intramural games during the fall.

With a registration of nearly 1500 motor cars on the campus, operated by students and staff members, the need for additional parking space became most urgent. Congested parking on campus roads created a serious safety hazard. In this dilemma the Department of Public Works came to our aid with an offer to build a parking area on the field north of Rodman Hall. The lot is nearing completion and it our plan to have it in use before winter sets in.

Acutely aware of the fire hazard which is ever present, during the year we strengthened our safety measures and undertook a comprehensive program of fire protection. A complete survey of all campus buildings, in cooperation with the Deputy State Fire Warden, revealed the points of greatest danger. Beginning with the defects which could be most readily corrected, and taking up as soon as possible the points of major risk, the program included rewiring and the installation of fire doors on the stair wells in Ranger Hall, fire escapes on Rodman Hall, East Hall, and Washburn Hall, the installation of additional fire extinguishers in all buildings, removal of inflammable materials from certain storage rooms, instruction of staff members

in fire protection measures, prohibition of smoking in classrooms and laboratories, and periodic fire drills. Such precautions, some of which, incidentally, made a heavy dent in the college budget, have already paid big dividends. Certain fires which have broken out on the campus have been detected in time and extinguished before major damage was done. Serious fires, causing extensive loss of property and occasional loss of life at other colleges and universities, are sober reminders to us that the price of safety is constant vigilance. In our communications with faculty and students, we endeavor to keep the college community "fire protection conscious." In its early years the college lost its main building by fire. In recent years we have been more fortunate. But we cannot expect mere luck to hold forever. It is incumbent upon us to reduce to a minimum the conditions which invite misfortune. In these efforts, the cooperation of the state and local fire officials is gratefully acknowledged.

The college has continued to benefit through the donation or acquisition at nominal cost of surplus war property. Additional Quonset huts for storage and maintenance purposes have greatly facilitated administrative operations and released valuable space for instructional and research purposes. Although the amount of usable equipment available has been greatly reduced, many items needed for instruction, research, and maintenance have been acquired through the courtesy of the War Assets Administration, the Federal Works Agency, and the Federal Public Housing Authority. We are indebted to the officers of these agencies for their generous and understanding cooperation.

FACULTY HOUSING

In my report last year I pointed out that faculty housing was one of the most acute needs of the college. During the year continued study has been given to the problem; proposals have been made for solving it. But as yet there is little progress to report. Of all the problems of college development, it seems that we have had most difficulty in solving this one. It has a serious impact upon faculty morale. Strenuous measures may be required if we are to develop the kind of home community which will be conducive to the best performance by the faculty. It is

most urgent that a workable faculty housing plan be devised during the coming year.

FACULTY SALARIES

The salary schedule for faculty members, worked out by the College Policy Committee and adopted by the Board of Trustees in April, 1947, was put into effect as soon as available funds would permit. With few exceptions it was possible to bring all salaries up to or beyond the minimum set for the several ranks by July 1, 1948. That some time would be required to make special adjustments was contemplated in the adoption of the schedule.

The continued rise in the cost of living revealed that the schedule first adopted was inadequate. Consequently, the study was continued through the year, and a new schedule providing an upward revision and wider range for the respective ranks was recommended to the Board of Trustees. This was adopted by the Board in July, 1948 and was used as the basis of the asking budget for the year 1949-50. The salary ranges according to rank in the new schedule are as follows:

	<i>Academic Year</i>	<i>Fiscal Year</i>
Instructors	\$3000-4000	\$3300-4400
Assistant Professors	3500-5000	3850-5500
Associate Professors	4500-6000	4950-6600
Professors	5500-7000	6050-7700

Many of the salaries for the year 1948-49 are still below these limits. The above figures are our present objective and if we are to maintain the quality standards we seek in our faculty, they are not too high. Despite our best efforts, the salary increases we have made from year to year have not kept pace with the rising cost of living. For example, the average faculty salaries for 1948-49 are 35 per cent higher than in 1941-42. Meanwhile the cost of living is estimated to have risen more than 50 per cent. We cannot expect the best performance from our faculty members unless they can maintain a standard of living in keeping with the social and cultural requirements of their position, with a reasonable degree of financial security, free from worry about income, and from the strain of extra employment. Unless the inflationary spiral is stopped and headed

backward, our salary budget will continue to be a problem of major concern.

THE COLLEGE BUDGET

The record size of student body and the record volume of activity of the past year were reflected in the highest budget in the history of the college. The expenditures for educational and general purposes in 1947-48 were \$2,763,957 compared with \$2,347,619 in 1946-47, an increase of 17.7 per cent. The income came from the following sources:

Student Fees (including room rentals)		
paid by Veterans Administration.....	\$288,375	13.7%
paid by Students.....	366,462	17.4%
State Appropriation		
for maintenance and operation.....	835,000	39.6%
Sales and Miscellaneous.....	356,978	17.0%
Federal Appropriations	259,287	12.3%
Total	\$2,106,103	100.0%
Other Income:		
Dining Services	408,407	
Prior Year Balances.....	452,724	
	\$2,967,234	

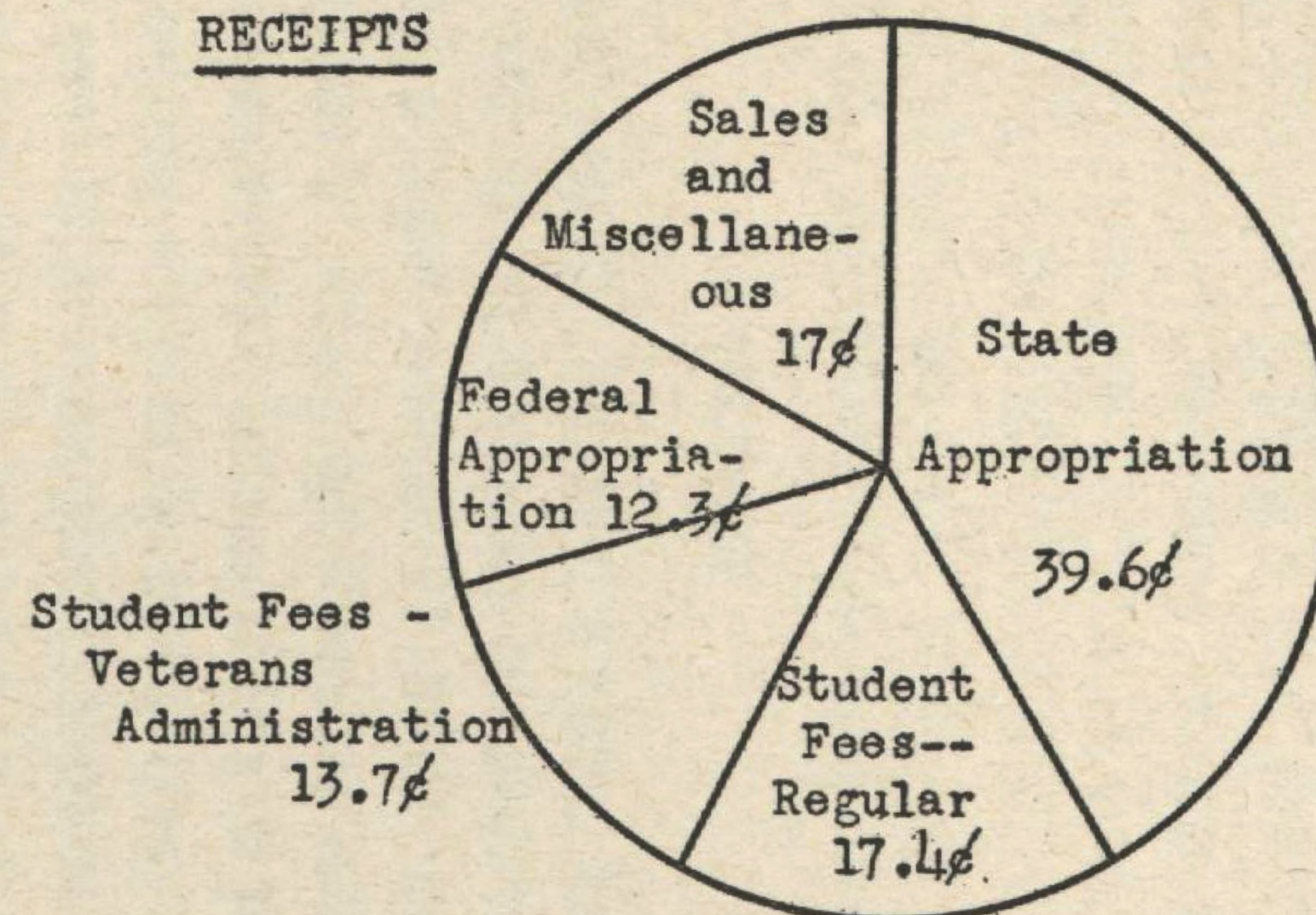
Compared with the previous year's report, these figures show a somewhat smaller proportion of income from the Veterans Administration, because in 1946-47 there was a larger overlapping balance due from the preceding year. Partly for this reason and partly because of a substantial increase in the amount, the State appropriation provided a larger proportion of our operating income than in 1946-47, but was still less than two-fifths of the total. Attention is drawn to this fact because an impression commonly prevails that a much larger share of the college expense is provided by the state. When it is pointed out that even without the income from the self-supporting dining halls, the state provides considerably less than half the college's operating income, the reaction is one of favorable surprise. In fact, since the year 1941, the state appropriation has only once exceeded 40 per cent of the operating income. One year it fell below 30 per cent, and the average for the seven years has been 36.6 per cent.

RHODE ISLAND STATE COLLEGE DOLLAR.

For the Year Ended June 30, 1948

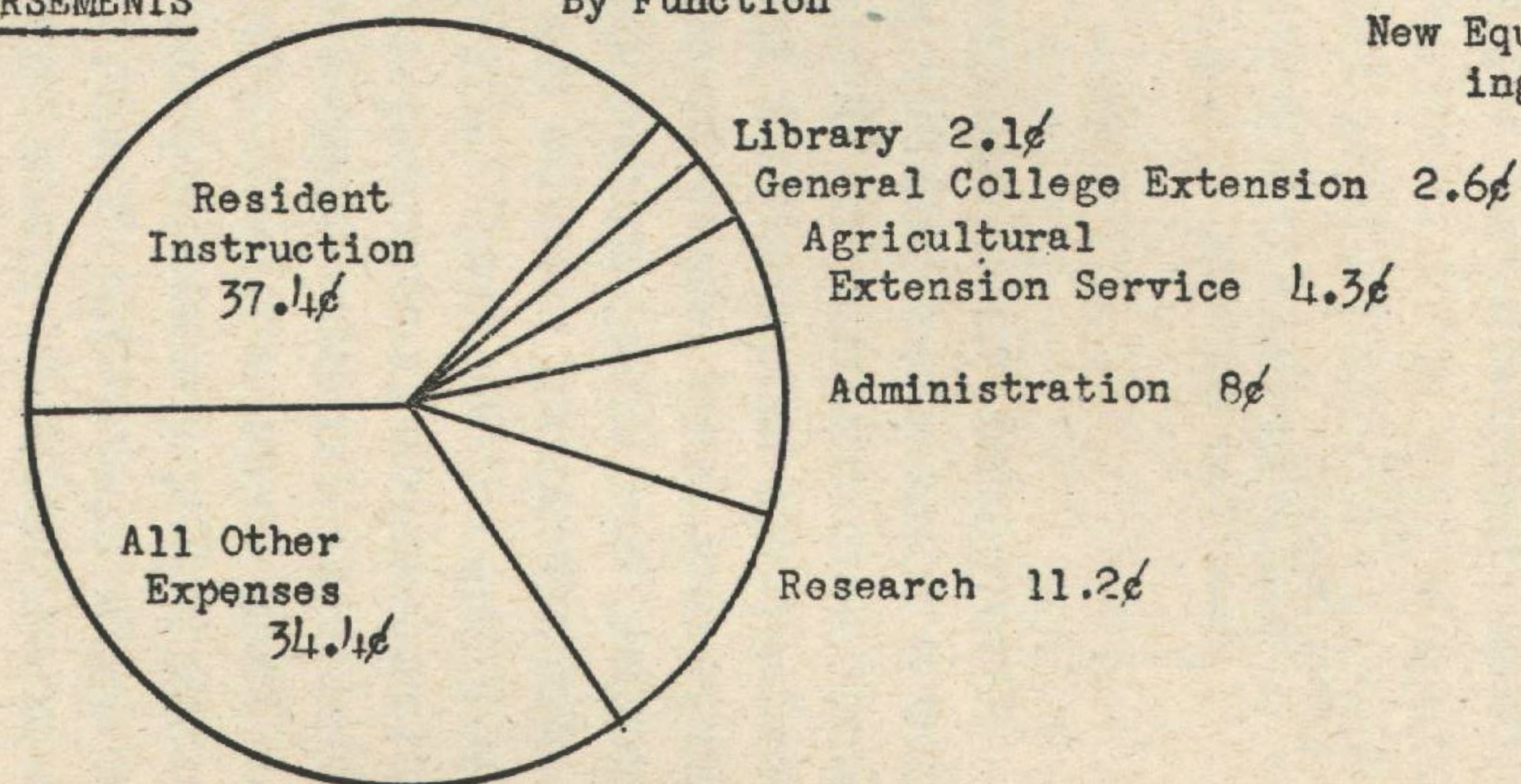
(Exclusive of the Dining Units)

RECEIPTS



DISBURSEMENTS

By Function



DISBURSEMENTS

By Object

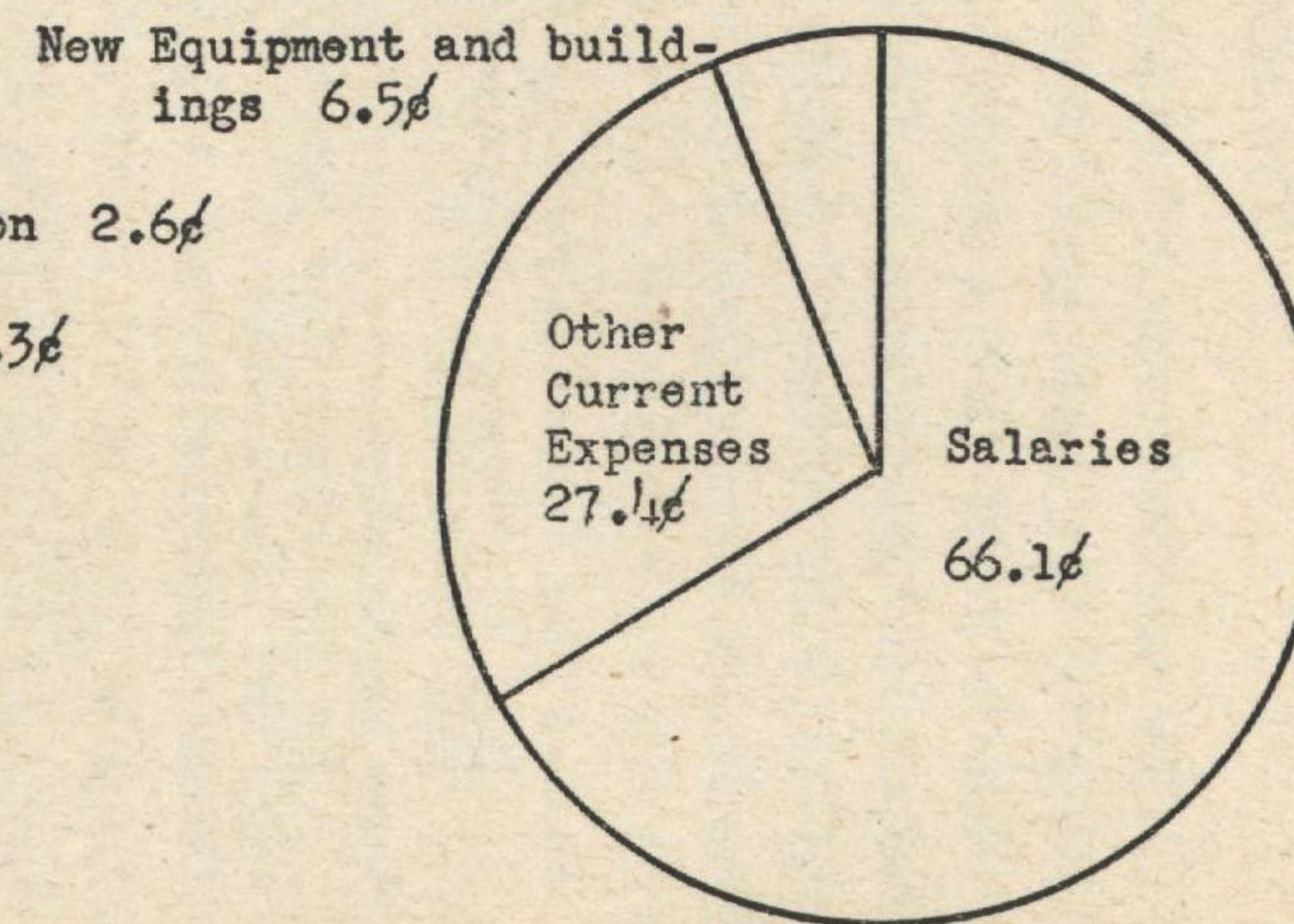


Chart 4 - Distribution of the State College Dollar, 1947-48

The sources of income for 1947-48 are shown graphically in Chart 4, also the distribution of expenditures by function and by object. Compared with disbursements in the previous year, it is encouraging to note an increase in the proportion expended for resident instruction, for research, and for the library, and a decrease in the proportion used for administration. Charts 5 and 6 show the relation of the state appropriation to the total college budget and to enrollment for the past eight years.

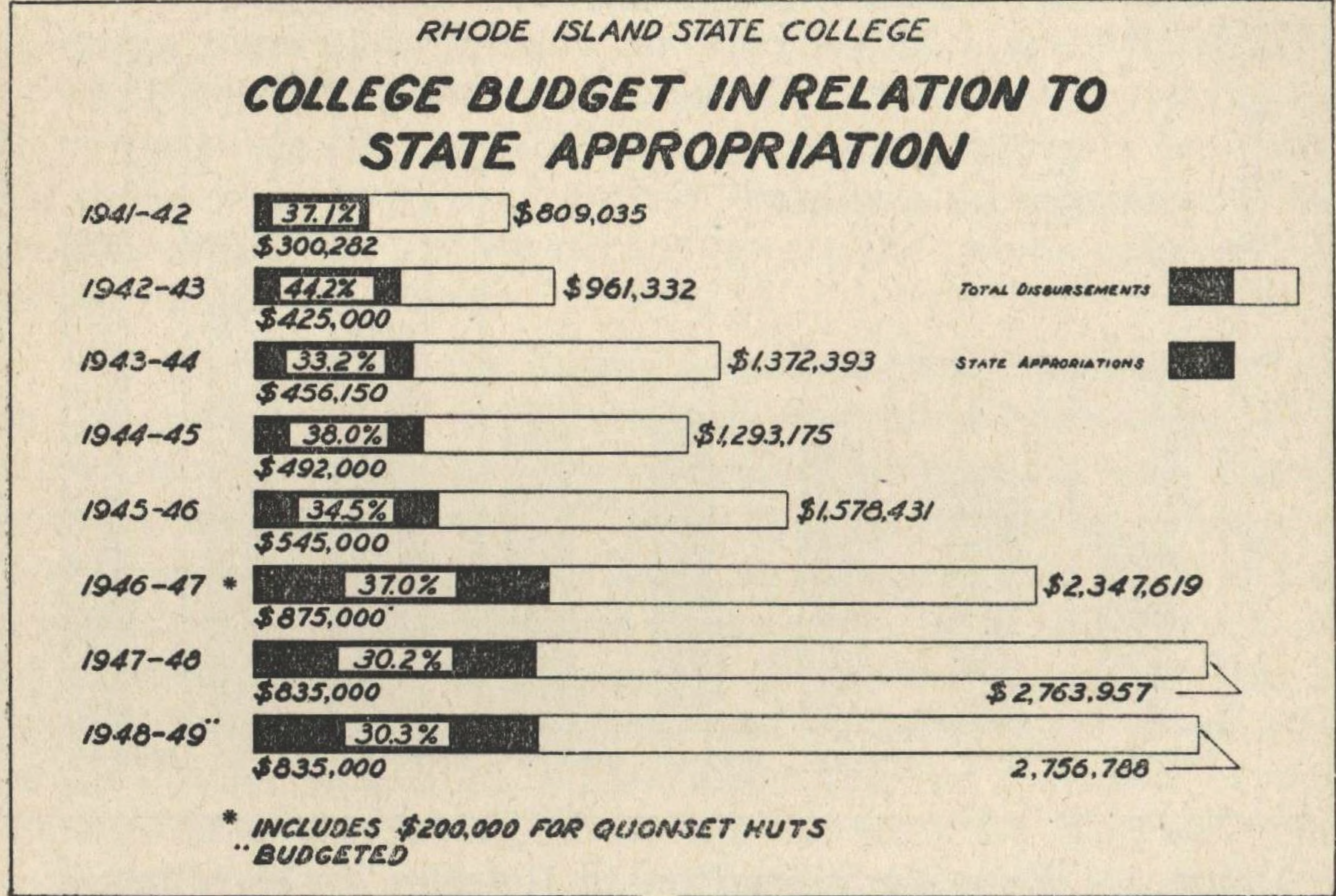


Chart 5 - College Budget in Relation to State Appropriation, 1941-1949

As was predicted last year, increases in salary and rising costs in all phases of operation have resulted in an increase in the educational cost per student. Computed by the formula previously used, the cost per student in 1947-48 was \$552 compared with \$480 in 1946-47. According to the current budget it is estimated that the per student cost for 1948-49 will be approximately \$598.

THE FUTURE OF THE COLLEGE

We must face the fact that more and more the citizens of Rhode Island are demanding a higher education for their sons

and daughters. The value of a college education has been so conclusively proven, we may expect that this demand will grow. The burden of accommodating the larger numbers will fall heavily upon our state colleges. Rhode Island is not different from other states in this respect. The tremendous increase of interest in higher education is no mere chance stimulated by

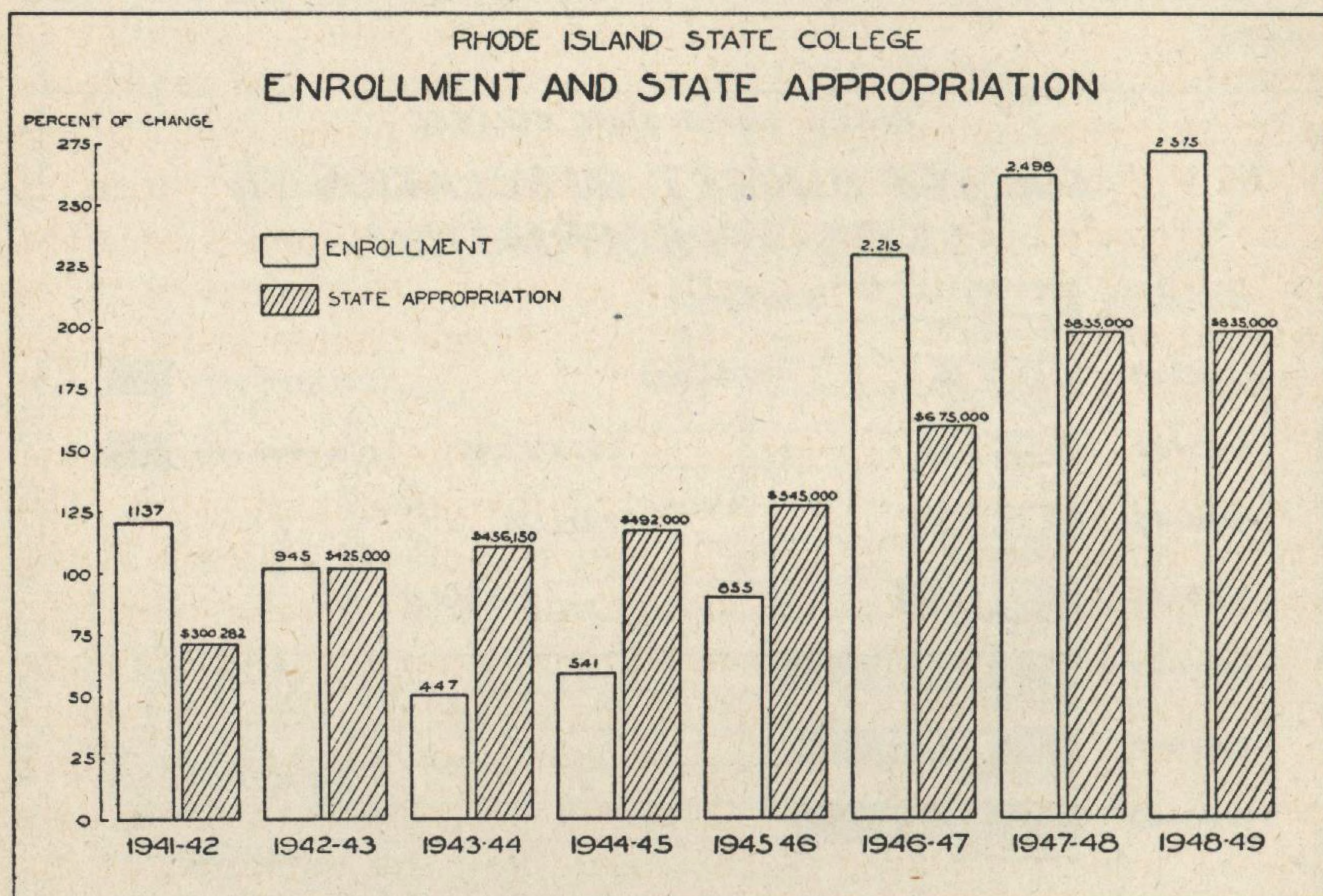


Chart 6 - State Appropriation in Relation to Enrollment,
1941-1949

federal aid through the Veterans Administration. Millions of our young men who were in the armed forces during the recent war saw a convincing demonstration of the advantages of higher education, and more and more they are determined to gain its benefits. Along with this, business, industry, and the professions are all exacting higher educational standards, and in an ever widening sphere of activity the young person without a college education in competition with college graduates finds himself at a disadvantage.

All this explains the constant public demand for an increase in the physical facilities at our State College.

Time and again we are asked about the future size of the college. It is difficult to give an answer that would have much meaning beyond a few years. As indicated earlier we are constantly studying trends, analyzing the factors that affect enrollment, and planning for the foreseeable future. It appears that for several years, we may count upon an undergraduate enrollment of about 2200, and our present building program is geared to that objective. But I believe we would be guilty of lack of foresight if in our master plan we should not anticipate in future years an expansion far beyond this figure. The Report of the President's Commission on Higher Education warns us to be prepared for a doubling of college enrollments by 1960. To those of us with conservative leanings, this appears to be an overstatement. Yet we cannot ignore the trends upon which the estimates are based.

In planning for the future, a state college like ours is not in the same position as a privately controlled institution. The latter can determine its own objectives and set its own limits without feeling any special obligation to its public clientele. A state college, on the other hand, is a department of the state government. It is the creature of the state; it is the servant of its citizens. It must be responsive to those citizens; it has a special obligation of leadership and of service to them. Its mission must be geared to the needs and the demands of the state, even as they change from time to time. Its program over a period of years will be determined by these factors and by circumstances that cannot with accuracy be predicted. One needs only to think back to 1941 to realize how utterly out of the question it was then to foresee what the college would be called upon to do in the next seven years.

We shall not be far from the truth if we say that our growth in the next two decades will be influenced by such factors as the following: (1) the number of graduates from the secondary schools of the state; (2) the policy of the government as to Selective Service and possibly Universal Military Training; (3) peace or war; (4) prosperity or depression; (5) federal aid for colleges; (6) the fiscal policy of the state; (7) new applications of atomic energy; (8) the educational requirements of professions, business, and industry; (9) the degree of "public

acceptance" of the college; (10) general economic conditions, e.g., inflationary trends, the purchasing power of the dollar, and government tax policy; (11) ability of private colleges and universities to expand and absorb their share of increasing enrollments; (12) the growing desire on the part of young people, and the encouragement of their parents, to secure the advantages of a college education.

Unquestionably, the trend is toward larger, rather than smaller college enrollments. The demand is irresistible. Being the will of the people, it will be satisfied. Frequently we hear this trend regretted. In the minds of some persons, quantity seems to be regarded as incompatible with quality. It is argued that an increase in quantity means a corresponding sacrifice in quality. This, of course, is not true. For evidence we need only to look at American industry, where standardized quantity production often results in a great improvement in the quality of the product.

Education is not like the filling of a sandwich—the larger the slice, the thinner it is spread. Nor is it like a stream which grows shallow when its course is widened. Rather, it may be compared with a reservoir, which both broadens and deepens as it is filled. For knowledge, unlike material resources, increases as it is shared, and is strengthened, not weakened, as its use is multiplied.

STATE UNIVERSITY

We are often asked also when the college will be named the State University. That it is destined in time to become a university seems beyond doubt. It is reasonable to believe that the experience of Rhode Island in higher education will be similar to that of other states.

Since Massachusetts State College became the University of Massachusetts last year, Rhode Island is now the only one of the six New England States that does not have a State University. There is a rising tide of popular demand that our college be given a like status.

Six years ago I pointed out certain objectives that should be achieved before we should seek the title "State University." Restated with elaboration, they are (1) larger enrollment,

(2) a School of Arts and Sciences, (3) a more adequate plant, (4) a more balanced research program, (5) a larger library, (6) graduate work leading to the Doctor's degree, and (7) a more adequate budget, which will permit the strengthening of faculty and technical equipment. We have made excellent progress toward these objectives, but still have some distance to go. We have achieved the first and the second, and have made a good beginning on the next three. We have made progress, also, on the last two, but have been handicapped in their full development by the emergency demands growing out of the war and by the shrinkage of the dollar. It shall be our purpose to continue to strengthen the institution in every possible way as a college; meanwhile its status as a university, perhaps sooner than we think, will develop as a matter of course.

THE COLLEGE AND THE WORLD CRISIS TODAY

The world scene today is not a reassuring one. Three years have passed since V-J Day, but they have failed to bring us peace. Civil strife and bloodshed continue in much of the world. Nations who fought as allies against the Axis powers now find themselves arrayed in opposite camps with an ever widening gulf separating them. Once more the United States finds herself under the threat of war. After demobilizing all too hastily the greatest armed forces ever assembled, our nation is embarking upon a new program of defense that will cost many billions. Selective Service is with us again.

In this welter of clashing forces and conflicting emotions, what are the lessons for us? What clear course of action can the college pursue?

First of all, we must recognize that we are the victims of a conflict between two opposing philosophies of life that are irreconcilable. On one side of the iron curtain prevails the ideal of a godless materialism. It is maintained by a ruthless dictatorship. On the other side there stands as a beacon light the ideal of human liberty founded in moral law. It maintains itself by the democratic form of government. Materialistic dictatorship has come to grips with liberal democracy.

The essentially vicious nature of communism is not always

understood, since it parades under the guise of liberalism and democracy. There is probably more danger to us from the ideas and the ideals of communism penetrating our midst and taking root in this land than there is from an attack by the Red Army. In this subtle manner are our free institutions threatened. We must safeguard our heritage against the tyranny of statism. However, in dealing with communism, we cannot meet fire with the same kind of fire. In protecting our cherished freedom, we cannot stoop to methods which violate the first principles of freedom. In attacking the enemies of our civil rights, we ourselves must not be guilty of violating those rights. Rather we need to meet them through the agencies of education, by exposing and disseminating the truth about them. False social and political doctrines cannot flourish when the merciless light of truth is thrown upon them. Ours is a mission of awakening, of education, and of enlightenment.

Two world wars and the follies committed by the victors during the armed truce that intervened should have taught us that in dealing with unscrupulous dictators, appeasement offers no solution—it simply invites calamity. We should have learned that disarmament, unless universally subscribed to in good faith, only invites militarism on the part of the nonconforming aggressors. Historians of the future will find few, if any, darker periods of modern history than the decade of the 1930's, when democratic countries stood by as if in an indifferent daze, while the Axis nations rolled up their armaments and launched on their mad drive for world domination.

And now, with another materialistic power seeking to draw more freedom-loving peoples within its grasp, we must not be guilty of making the same mistake again. We should have learned that, in dealing with international bandits, as in dealing with individual gangsters, the only way to gain respect for the rights of nations is with the show of power to police. We should have learned that if peace is ever to prevail in the world, the United States of America must take the leadership and be willing to work unselfishly with other nations, patiently and self-sacrificingly, to perfect a workable scheme of world government.

Meanwhile, it is for us of the colleges, and particularly for

us here at this institution, to reappraise the values with which we are dealing in our educational program. We must make sure that our program is pointed toward providing the leadership for the new role America must play in world affairs in the Atomic Age. It calls for a world outlook. No longer can we regard that man educated who is strictly provincial in his point of view, who is narrowly cloistered in his habits, and who does not relate his efforts to the requirements of human society. English, foreign language, history, physics, and psychology, as well as engineering and agriculture, must be studied from the point of view of the role they are playing and will continue to play in the unfolding scene of world events.

Then too we must create a better understanding of the American tradition of freedom. Faculty and students alike must be led to show a full appreciation of this priceless heritage. We must be reminded repeatedly of the sacrifice that went into winning freedom. We must understand that we have to pay the price of eternal vigilance if we are to retain our freedom. Our college program must give more attention to the history of our own American institutions, which stand as the great white hope of untold millions in other lands who still live in bondage.

Again, it is for us in the colleges and universities to place a new emphasis upon spiritual values. The world is suffering from materialism. During the last century we have experienced phenomenal progress, but it has been largely a materialistic progress, and it has outrun our spiritual progress. We have learned to understand machines and how to control them, but we haven't yet learned to understand and control man. And in condemning communistic materialism, we must not overlook the materialism of which we ourselves are guilty. If we make an honest analysis of the social and moral trends which threaten our basic institutions, we cannot fail to be alarmed by the grip which materialism has fastened upon American life.

We cannot pose as an example to other nations as long as we are guilty of these faults at home. We cannot expect to cope with the sins of materialism unless we in the colleges preach the doctrine, and set the example, of right over wrong, of in-

tegrity in all dealings, of religious faith as the foundation of moral law and of dependence upon a Supreme Power beyond the comprehension of man.

To this end we must continue our normal task of training scientists, with their studies pointed to the demands of an Atomic Age. We must pursue our program of scientific research and devise new applications which will strengthen American agriculture, commerce, and industry. We must give increased attention to military training, particularly in relation to the national program of Selective Service. We must continue to prepare leaders in the various professions, with special attention to America's responsible role in world affairs and the necessity of a new world government, if civilization is to be saved. And finally, we must constantly seek to introduce into our whole program a sense of spiritual awareness which will place intangible human values and material things in proper balance. By so doing, we shall make our contribution to educational rearmament in the world's quest for peace.

Respectfully submitted,

CARL R. WOODWARD, *President*

Report of the Registrar

THE total enrollment for the two semesters of the academic year 1947-1948, excluding duplicates, was as follows:

	Men	Women	Total
Graduate students	41	15	56
Four-year students	1833	588	2421
Irregular students	24	16	40
Total	1898	619	2517

Table 1 indicates enrollment of students as of October 1 for the years 1943 to 1947 inclusive:

TABLE 1

Class	1943	1944	1945	1946	1947
Graduate	10	5	3	27	40
Senior	77	42	54	146	286
Junior	82	57	89	282	440
Sophomore	91	97	208	660	898
Freshman	180	332	484	1068	808
Irregular	7	8	17	32	26
Total	447	541	855	2215	2498

Table 2 gives the distribution of students in curricula for each semester of the year 1947-1948, and Table 3 indicates the number of new and previous matriculants in each class:

TABLE 2
September 13, 1947 to February 1, 1948

Curricula	Senior		Junior		Sophomore		Freshman		Irregular		Graduate		Total		Total
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	
SCHOOL OF AGRICULTURE															
Agriculture.....	12	0	22	1	44	0	66	0	0	0	0	0	144	1	145
SCHOOL OF BUSINESS ADMINISTRATION															
Accounting.....	10	3	17	0	66	2	0	0	0	0	0	0	93	5	98
General.....	13	1	27	4	67	6	0	0	0	0	0	0	107	11	118
Industrial Management.....	0	1	10	2	29	1	0	0	0	0	0	0	39	4	43
Insurance.....	0	0	0	0	9	0	0	0	0	0	0	0	9	0	9
Marketing and Advertising.....	6	4	30	13	82	5	0	0	0	0	0	0	118	22	140
Secretarial Studies.....	0	3	0	4	0	5	0	0	0	0	0	0	0	12	12
Undesignated.....	0	0	0	0	0	0	202	16	0	0	0	0	202	16	218
Total Business Administration.....	29	12	84	23	253	19	202	16	0	0	0	0	568	70	638
SCHOOL OF ENGINEERING															
Chemical.....	6	0	18	0	13	0	0	0	0	0	0	0	37	0	37
Civil.....	17	1	20	0	57	0	0	0	0	0	0	0	94	1	95
Electrical.....	21	0	61	0	70	1	0	0	0	0	0	0	152	1	153
Industrial.....	0	0	4	0	18	0	0	0	0	0	0	0	22	0	22
Mechanical.....	41	0	36	1	95	1	0	0	0	0	0	0	172	2	174
Aeronautics.....	15	1	18	1	3	1	0	0	0	0	0	0	36	3	39
Physics.....	5	0	4	2	4	0	0	0	0	0	0	0	13	2	15
Undesignated.....	0	0	0	0	0	0	172	1	0	0	0	0	172	1	173
Total Engineering.....	105	2	161	4	260	3	172	1	0	0	0	0	698	10	708
HOME ECONOMICS															
Child Development.....	0	11	0	11	0	0	0	0	0	0	0	0	0	22	22
General.....	0	3	0	10	0	0	0	0	0	0	0	0	0	13	13
Institutional Management.....	0	7	0	5	0	0	0	0	0	0	0	0	0	12	12
Teacher Training.....	0	4	0	0	0	0	0	0	0	0	0	0	0	4	4
Textiles.....	0	13	0	4	0	0	0	0	0	0	0	0	0	17	17
Undesignated.....	0	0	0	0	0	69	1	69	0	0	0	0	1	138	139
Total Home Economics.....	0	38	0	30	0	69	1	69	0	0	0	0	1	206	207
Nursing.....	0	0	0	10	0	15	0	12	0	0	0	0	0	37	37

Curricula	Senior		Junior		Sophomore		Freshman		Irregular		Graduate		Total		Total
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	
SCHOOL OF SCIENCE															
Bacteriology.....	1	1	3	1	2	1	0	0	0	0	0	0	6	3	9
Biological Laboratory Technology	0	11	0	5	0	6	0	14	0	0	0	0	0	36	36
Biology.....	5	3	3	2	38	14	27	23	0	0	0	0	73	42	115
Botany.....	2	0	0	2	0	0	0	0	0	0	0	0	2	2	4
Chemistry.....	6	1	11	3	28	5	0	0	0	0	0	0	45	9	54
Liberal Studies.....	4	21	11	21	38	41	21	19	0	0	0	0	74	102	176
Mathematics.....	0	0	0	2	0	3	0	0	0	0	0	0	0	5	5
Physical Education.....	6	0	10	0	34	0	25	0	0	0	0	0	75	0	75
Pre-Medicine.....	6	1	10	0	0	0	0	0	0	0	0	0	16	1	17
Teacher Training.....	2	12	5	16	8	16	9	13	0	0	0	0	24	57	81
Zoology.....	4	2	0	0	0	1	0	0	0	0	0	0	5	2	7
Undesignated.....	0	0	0	0	0	0	109	9	0	0	0	0	109	9	118
Total Science.....	36	52	53	52	149	86	191	78	0	0	0	0	429	268	697
UNDESIGNATED.....	0	0	0	0	0	0	0	0	14	12	29	11	43	23	66
Undergraduate Totals.....	182	104	320	120	706	192	632	176	0	0	0	0	1840	592	2432
Grand Total.....	286		440		898		808		26		40		1883	615	2498

TABLE 2—Continued
February 9 to June 13, 1948

Curricula	Senior		Junior		Sophomore		Freshman		Irregular		Graduate		Total		Total
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	
SCHOOL OF AGRICULTURE															
Agriculture.....	20	0	17	1	38	1	62	1	0	0	0	0	137	2	139
SCHOOL OF BUSINESS ADMINISTRATION															
Accounting.....	12	3	20	1	72	1	2	0	0	0	0	0	106	5	111
General.....	21	0	21	2	53	3	9	10	0	0	0	0	104	15	119
Industrial Management.....	4	8	22	0	17	0	4	0	0	0	0	0	47	8	55
Insurance.....	0	0	0	0	2	0	0	0	0	0	0	0	2	0	2
Marketing and Advertising.....	12	4	38	3	70	3	2	0	0	0	0	0	122	10	132
Secretarial Studies.....	0	3	0	3	0	5	0	2	0	0	0	0	0	13	13
Undesignated.....	0	0	0	0	0	0	164	4	0	0	0	0	164	4	168
Total Business Administration.....	49	18	101	9	214	12	181	16	0	0	0	0	545	55	600
SCHOOL OF ENGINEERING															
Chemical.....	8	0	10	0	16	0	0	0	0	0	0	0	34	0	34
Civil.....	13	0	23	0	50	0	3	0	0	0	0	0	89	0	89
Electrical.....	17	0	64	2	57	1	1	0	0	0	0	0	139	3	142
Industrial.....	0	0	14	0	17	0	0	0	0	0	0	0	31	0	31
Mechanical.....	30	0	36	1	86	1	5	0	0	0	0	0	157	2	159
Aeronautics.....	11	1	17	0	0	0	0	0	0	0	0	0	28	1	29
Physics.....	2	0	5	2	8	0	0	0	0	0	0	0	15	2	17
Undesignated.....	0	0	0	0	0	0	145	0	0	0	0	0	145	0	145
Total Engineering.....	81	1	169	5	234	2	154	0	0	0	0	0	638	8	646
SCHOOL OF HOME ECONOMICS															
Child Development.....	0	12	0	14	0	0	0	0	0	0	0	0	0	26	26
General.....	0	4	0	6	0	0	0	0	0	0	0	0	0	10	10
Institution Management.....	1	0	0	6	0	0	0	0	0	0	0	0	1	6	7
Teacher Training.....	0	4	0	4	0	0	0	0	0	0	0	0	0	8	8
Textiles.....	0	10	0	6	0	0	0	0	0	0	0	0	0	16	16
Undesignated.....	0	0	0	0	0	65	0	58	0	0	0	0	0	123	123
Total Home Economics.....	1	30	0	36	0	65	0	58	0	0	0	0	1	189	190
Nursing.....	0	10	0	0	0	6	0	11	0	0	0	0	0	27	27

Curricula	Senior		Junior		Sophomore		Freshman		Irregular		Graduate		Total		Total
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	
SCHOOL OF SCIENCE															
Bacteriology.....	2	3	0	1	1	2	0	0	0	0	0	0	3	6	9
Biological Laboratory Technology	0	9	0	5	0	4	0	13	0	0	0	0	0	31	31
Biology.....	5	3	2	5	37	13	19	17	0	0	0	0	63	38	101
Botany.....	1	0	0	1	0	0	0	0	0	0	0	0	1	1	2
Chemistry.....	3	0	12	2	17	5	6	1	0	0	0	0	38	8	46
Liberal Studies.....	11	23	8	21	31	40	15	15	0	0	0	0	65	99	164
Mathematics.....	0	1	0	1	0	2	0	2	0	0	0	0	0	6	6
Physical Education.....	8	0	19	0	18	0	23	0	0	0	0	0	68	0	68
Pre-Medicine.....	9	2	3	0	0	0	0	0	0	0	0	0	12	2	14
Teacher Training.....	3	13	6	14	9	14	9	12	0	0	0	0	27	53	80
Zoology.....	2	2	0	0	2	0	0	0	0	0	0	0	4	2	6
Undesignated.....	0	0	0	0	0	0	84	4	0	0	0	0	84	4	88
Total Science.....	44	56	50	50	115	80	156	64	0	0	0	0	365	250	615
UNDESIGNATED.....	0	0	0	0	0	0	0	0	18	16	39	10	57	26	83
Undergraduate Totals.....	195	115	337	101	601	165	553	150	0	0	0	0	1686	531	2217
Grand Total.....	216		438		766		703		34		49		1743	557	2300

TABLE 3

September 13, 1947, to February 1, 1948

Class	Date of Matriculation				Total	
	Previous to September, 1947		September, 1947			
	Men	Women	Men	Women	Men	Women
Graduate	21	9	8	2	29	11
Senior	182	102	0	2	182	104
Junior	320	120	0	0	320	120
Sophomore	686	185	20	7	706	192
Freshman	97	16	535	160	632	176
Irregular	8	8	6	4	14	12
Total	1314	440	569	175	1883	615

February 9 to June 13, 1948

Class	Date of Matriculation				Total	
	Previous to February, 1948		February, 1948			
	Men	Women	Men	Women	Men	Women
Graduate	37	10	2	0	39	10
Senior	195	115	0	0	195	115
Junior	337	101	0	0	337	101
Sophomore	595	163	6	2	601	165
Freshman	546	148	7	2	553	150
Irregular	16	13	2	3	18	16
Total	1726	550	17	7	1743	557

The home residence of students enrolled in the degree curricula in all classes, September 13, 1947, to June 13, 1948, is given in Table 4.

TABLE 4

A. Resident in Rhode Island by Counties and Towns:		
Bristol:		Central Falls 44
Barrington 35		Cranston 201
Bristol 36		Cumberland 18
Warren 16		East Providence 86
	—	Glocester 13
	87	Johnston 12
Kent:		Lincoln 24
Coventry 4		North Providence 45
East Greenwich 58		Pawtucket 185
Warwick 128		Providence 598
West Warwick 52		Scituate 18
	—	Smithfield 18
	242	Woonsocket 85
		—
Newport:		1356
Jamestown 23		Washington:
Little Compton 3		Exeter 1
Middletown 9		Hopkinton 18
Newport 122		Narragansett 34
New Shoreham 1		North Kingstown 58
Portsmouth 12		Richmond 12
Tiverton 8		South Kingstown 112
	—	Westerly 109
	178	—
Providence:		344
Burrillville 9		
B. Resident outside the State:		
Arkansas:		District of Columbia:
Little Rock 1		Washington 1
California:		Hawaii:
Los Angeles 1		Honolulu 1
Connecticut:		Illinois:
Ansonia 1		Chicago 1
Broad Brook 1		Decatur 1
Colchester 1		—
Danbury 1		2
Danielson 1		Maine:
East Hartford 1		Biddeford 1
Grosvenordale 1		Corinna 2
Groton 3		Old Town 1
Mystic 3		Portland 1
New Britain 1		Waterville 1
New Haven 1		—
New London 4		6
Niantic 1		Massachusetts:
Old Lyme 1		Attleboro 7
Saugatuck 1		Barrowsville 1
Stafford Springs 2		Blackstone 1
Stonington 1		Boston 3
Stratford 2		Braintree 1
	—	Brockton 5
	27	Brookline 2

Cambridge	1	Jersey City	1
Chelmsford	1	Kearny	1
Concord	1	Maplewood	1
Danvers	1	Mountain Lakes	1
East Douglas	1	Ridgewood	1
East Weymouth	1	Sea Cliff	1
Fairhaven	3	Short Hills	1
Fall River	11	Teaneck	1
Haverhill	1	Union City	4
Leominster	1	Verona	1
Magnolia	1	Weehawken	1
Mattapan	2		
Medford	1		20
Melrose	2	New York:	
Middleboro	3	Arverne	1
Milton	1	Baldwin	1
New Bedford	7	Bay Shore	1
Newton Highlands	1	Brooklyn	5
North Attleboro	3	Fishers Island	1
North Quincy	1	Glens Falls	1
Norton	1	Granville	1
Peabody	2	Great Neck	1
Pittsfield	1	Hollis	1
Quincy	1	Larchmont	1
Revere	1	Lynbrook	2
Roxbury	1	Mt. Vernon	1
Seekonk	4	New Rochelle	2
Somerville	2	New York City.....	10
South Attleboro	2	Peekskill	1
South Boston	1	Richburg	1
South Braintree	1	Rochester	2
Springfield	2	Tarrytown	1
Swampscott	1	White Plains	1
Swansea	1	Woodmere	1
Taunton	1		
Townsend	1		36
Townsend Harbor	1	North Dakota:	
Wakefield	1	Mott	1
Wareham	1	Norway:	
Westford	1	Stavanger	1
West Medford	2	Ohio:	
West Newton	1	Cleveland	1
Whitinsville	1	Osborn	1
Winthrop	1		
Worcester	8		2
Wrentham	1	Pennsylvania:	
	106	Bethlehem	1
Minnesota:		Drexel Hill	1
Owatonna	1	Northampton	1
New Hampshire:		Plymouth	1
Alstead	1	Springfield	1
New Jersey:			5
Bogota	2	Turkey:	
Caldwell	1	Ankara	1
Flushing	1	Vermont:	
Highland Park	1	Rochester	1

Total attendance from within the state..... 2207
Total attendance from outside the state..... 214

Preparatory schools represented in the freshman class, September, 1947, to June, 1948, are listed in Table 5.

TABLE 5

In Rhode Island:

Barrington:

Leander H. Peck High..... 6
Block Island High..... 1

Bristol:

Bristol Senior High..... 9
Colt Memorial High..... 6
Burrillville High 3

Central Falls:

Central Falls High..... 16
Notre Dame High..... 1
Coventry High 12
Cranston High 46
Cumberland High 2
East Greenwich High..... 8

East Providence:

East Providence High..... 19
Providence Country Day School.... 4

Little Compton:

Josephine F. Wilbur School..... 3

Newport:

De La Salle Academy..... 7
Rogers High 32
St. Catherine Academy..... 2
North Kingstown High..... 11
North Providence High..... 14

Pawtucket:

Pawtucket East High..... 34
Pawtucket West High..... 18
St. Raphael High..... 8

Providence:

Central High 53
Classical High 36
Hope High 65
La Salle Academy..... 23
Lincoln School 1
Mary C. Wheeler School..... 1
Mt. Pleasant High..... 33
St. Charles Borromeo..... 1
St. Patrick's High..... 1
St. Raphael High..... 2
St. Xavier's High..... 3

South Kingstown High..... 27

Warren High 4

Warwick:

James T. Lockwood High..... 10
Nelson W. Aldrich High..... 19
Samuel Gorton High..... 12

West Barrington:

St. Andrew's School..... 1

Westerly:

Gov. Samuel Ward Senior High.... 20

West Warwick High..... 6

Woonsocket:

Mount St. Charles Academy..... 1
St. Clare's School..... 1
Woonsocket High 28

Total from Rhode Island.....610

Equivalency Examinations 5

In Connecticut:

Danbury High 1

Danielson:

Killingly High 1
East Hartford High..... 1
Greenwich High 1
Hamden High 1
New Britain High..... 1

New London:

Bulkeley School 1

North Stonington:

Wheeler School 2

Putnam High 1

Stonington High 1

Waterbury:

St. Margaret's School..... 1

In Dominican Republic:

Trujillo City:

President Trujillo High..... 1

In Hawaii:

Honolulu:

Iolani High 1

In Maine:

Biddeford High 1

Waterville Senior High..... 1

In Massachusetts:

Andover:

Abbot Academy 1

Belmont High 1

Blackstone High 1

Boston:

English High 1

Huntington High 1

Brighton High 1

Brockton High 3

East Weymouth High..... 1

Fall River:

B. M. C. Durfee High..... 3

Medford High 2

Middleboro:

Memorial High 1

New Bedford:

Holy Family High..... 1

New Bedford High..... 1

TABLE 6

	Men		Women		Total
	Veteran	Non-Veteran	Veteran	Non-Veteran	
Campus	1184	367	15	590	2156
Providence Center	204	145	0	14	363
Total.....	1387	511	15	604	2517

The year closed with a loss of 262 students. The reasons for withdrawal are listed below:

1. Dismissed for low scholastic standing.....	125
2. Voluntarily withdrew because of low grades.....	20
3. Marriage	6
4. Employment	22
5. Poor health	22
6. Transfer to another college.....	10
7. Did not re-register for following semester.....	16
8. Needed at home.....	20
9. Disciplinary action	1
10. Financial difficulty	13
11. Language difficulty	1
12. Change of residence.....	1
13. No reason designated.....	5

262

TABLE 7

STATISTICS OF GRADUATES—1947-1948

	Feb. 1, 1948			June 13, 1948			Total for Year
	M	W	Total	M	W	Total	
Agriculture	6	0	6	10	0	10	16
Business Administration	5	0	5	43	11	54	59
Engineering							
Chemical	2	0	2	8	0	8	10
Civil	4	1	5	13	0	13	18
Electrical	7	0	7	17	0	17	24
Mechanical	15	0	15	28	0	28	43
Aero. Option	4	0	4	13	1	14	18
Physics	3	0	3	2	0	2	5
Home Economics	0	2	2	1	40	41	43
Nursing	0	0	0	0	5	5	5
Science							
Bacteriology	0	2	2	2	2	4	6
Biological Laboratory Technology.....	0	0	0	0	8	8	8
Biology	2	0	2	0	0	0	2
Botany	1	0	1	1	1	2	3
Chemistry	1	1	2	2	0	2	4
General Teacher Training.....	0	2	2	2	13	15	17
Liberal Studies	1	4	5	7	19	26	31
Mathematics	0	0	0	0	1	1	1
Physical Education	0	0	0	9	0	9	9
Pre-Medicine	1	0	1	6	2	8	9
Zoology	1	1	2	4	4	8	10
	53	13	66	168	107	275	341

Of the graduates on February 1, 1948, 54 students entered from Rhode Island high or preparatory schools, one in September, 1933, one in September, 1935, one in September, 1936, two in September, 1938, one in September, 1939, eight in September, 1940, 17 in September, 1941, seven in June, 1942, one in February, 1943, two in October, 1943, two in February, 1944, ten in June, 1944, and one in October, 1944. Five students came from schools outside Rhode Island, three in June, 1944, one in October, 1944, and one in September, 1945. Seven students were transferred from other colleges.

Of the graduates on June 13, 1948, 219 students entered from Rhode Island high or preparatory schools, one in September, 1927, two in September, 1933, one in September, 1936, four in September, 1937, one in September, 1938, eight in September, 1939, 13 in October, 1940, 41 in September, 1941, 18 in June, 1942, six in September, 1942, nine in February, 1943, one in June, 1943, three in October, 1943, three in February, 1944, seven in June, 1944, 93 in October, 1944, one in February, 1945, three in September, 1945, and four in February, 1946. Twenty-nine students came from schools outside Rhode Island, one in September, 1939, two in October, 1940, six in September, 1941, two in June, 1942, one in September, 1942, one in February, 1943, three in June, 1944, and 13 in October, 1944. Twenty-seven students were transferred from other colleges.

During the year, three graduate students received the degree Bachelor of Education; eight graduate students received the degree Master of Science, one in Agricultural Economics, one in Agronomy, one in Chemical Engineering, three in Chemistry, one in Economics, and one in Zoology. At the Commencement held February 1, 1948, one honorary degree was conferred: Doctor of Science. At the Commencement held June 13, 1948, three honorary degrees were conferred: two Doctor of Laws and one Doctor of Science.

The enrollment in extension courses conducted during the year by the General College Extension Division in various localities about the State numbered 2387 men and 483 women (see p. 104).

In the summer school of 1947, which consisted of one session of six weeks, 610 students were enrolled, 427 men and 183 women.

The overall summary of enrollment is as follows:

Regular undergraduates:	
Main Campus	2,156
Providence Center	363
Irregular students	40
Graduate students	56
*Summer Session	610
*General College Extension	2,870
Total, all divisions.....	6,095

*Duplicates not omitted.

JOHN C. WELDIN, *Registrar*

The College Library

FOLLOWING is a statistical summary of library activities for the academic year 1947-1948:

GROWTH

Volumes added by purchase.....	3,672
Volumes added by gift.....	409
Volumes added by binding	1,365
Volumes added by Experiment Station.....	12
Total volumes added during the fiscal year 1947-1948.....	5,458
Total volumes withdrawn.....	170

INVENTORY

Volumes in library June 30, 1947, including Experiment Station and Extension Division	88,078
Volumes in Experiment Station and Extension Division, 1948.....	5,438
Total volumes June 30, 1948.....	93,536
Periodicals received by purchase.....	691

USE (CIRCULATION)

Volumes lent for home use (faculty).....	4,099
Volumes lent for home use (students).....	11,796
Overnight reserves	704
Total	16,599
Reserved books lent for use in library.....	12,195
Courses having books on reserve.....	110
Total reserved book circulation.....	12,899
Volumes placed on reserve.....	1,353
Inter-library loans:	
Volumes borrowed from other libraries.....	84
Volumes lent to other libraries.....	3

EXPENDITURES

Salaries, including student assistants.....	\$22,129.39
Travel	472.39
Supplies and equipment.....	704.15
Library of Congress printed cards.....	533.02
Binding	1,480.00
Books and periodicals.....	22,127.77
Total	\$47,446.72
Per cent of total institutional budget for the library.....	2.1

GIFTS, EXCHANGES AND OUTSTANDING PURCHASES

During the year 1947-48, we have received a considerable amount of valuable material by gift. Mr. Leonard Bacon of Peace Dale gave in memory of his father, the late Nathaniel Terry Bacon, several sets including:

- Diderot, Denis, (ed): Encyclopedia ou Dictionnaire des Sciences. Geneva, Pellet. 1776
36 vols.
- Guizot, Francais: Essais sur l'histoire de France. Paris, Briere, 1823.

Guizot, Francois: Protectorat de Richard Cromwell. Paris, Didier, 1864 2 vols.
 Merivale, Charles: History of the Romans under the Empire. N. Y., Appleton, 1863, 4 vols.
 Mitford, William: History of Greece. London, Cadell, 1838, 8 vols.
 Simonde de Sismondi, J. C. L.: Histoire des Francais. Paris, Treuttel and Wurtz, 1821, 31 vols.
 Thiers, M. A.: Histoire du consulat et de l'empire. Paris, Lheureux, 1845, 20 vols.

Mrs. Raymond G. Bressler gave us over 200 items from the library of her husband, the late President R. G. Bressler. Among them were:

Livermore, S. T., The History of Block Island from Its Discovery in 1514 to the Present Time 1876. Hartford, Case, 1877.
 Kittredge, George L., The Old Farmer and His Almanac, Boston, Ware, 1904.
 Jones, Henry A., Dark Days of Social Welfare at the State Institutions at Howard, Rhode Island, 1943.

We have also received valuable additions to our collections from the following:

Senator Theodore Francis Green
 Dr. Carl R. Woodward
 Prof. Herbert H. Palmer
 Prof. Brooks A. Sanderson
 Dean George A. Ballentine
 Prof. Robert Rockafellow
 Dr. John C. Weldin
 Dr. Henry B. Potter

Mr. George Stevens
 Mr. Kenneth Barnard
 Dr. John L. Tennant
 Prof. Milo Kimball
 Miss Elizabeth Potter
 Brown University
 Mr. Duncan W. Gillies
 Mr. J. F. Lincoln, Arc Welding Foundation

Authorization for the granting of the Bachelor of Arts degree has meant an added responsibility and challenge to the library. In order to strengthen our collection in the field of English and American literature, the head of the English Department and the Librarian have concentrated their efforts in attempting to add complete sets of the works of nineteenth and twentieth century authors, as they have become available in dealers' catalogs. We have succeeded in acquiring the following:

Addison, Joseph: Works. 6 vols.
 Aldrich, Thomas B.: Writings. 8 vols.
 Cather, Willa S.: Novels and stories. 13 vols.
 Defoe, Daniel: Works. 16 vols.
 Dryden, John: Works. 8 vols.
 Eliot, George: Writings. 25 vols.
 Fielding, Henry: Works. 10 vols.
 Harte, Bret: Writings. 10 vols.
 Harvard Classics. 50 vols.
 Hawthorne, Nathaniel: Works. 22 vols.
 Madison, James: Writings. 9 vols.
 Maupassant, Guy de: Works. 17 vols.
 Norris, Frank: Complete edition. 10 vols.
 Pastor, Ludwig: History of the Popes. 34 vols.

Prescott, William H.: Complete works. 16 vols.
 Scott, Temple: Bronte Sisters 12 novels
 Shadwell, Thomas: Complete works. 5 vols.
 Stockton, Frank R.: Works. 21 vols.
 Twain, Mark: Writings. 37 vols.
 Ruskin, John: Complete works. 39 vols.
 Goldsmith, Oliver: Works. 10 vols.

In the field of bibliography, our outstanding purchase was a set of Sabin, Joseph: **Bibliotheca Americana**, a dictionary of books relating to America from its discovery to the present time, 1868-1936. 29 vols.

The following sets were completed in the year 1947-1948:

Connecticut Academy of Arts and Sciences, Transactions. Volume 5 to date.
 Archives of Psychology, volume 5 to date.
 Geological Society of America, Special Papers 1-58, Memoirs 1-8.
 American Journal of Anatomy, volume 50, 1932 to date.

The following new titles were added to our subscription list of periodicals beginning January 1, 1948:

Baby Talk	Infantry School Quarterly
Bulletin of the Atomic Scientists	Iron Age
Canadian Journal of Psychology	Journal of Animal Science
Colliers'	Journal of Business Education
Commentary	Journal of Mamology
Common Ground	Journal of Marketing
Congressional Quarterly Log	Journal of Social Issues
Consumers' Research Bulletin	Manchester School of Economics and Social Studies
Duroc News	Negro Digest
Ebony	New Statesman and Nation
Educational Film Guide	Northwest Science
Evolution	Nucleonics
Farm Policy Bulletin	Plant and Soil
Farm Quarterly	Race Relations
Focus	Research
Food Packer	Review of Applied Mycology
Greenkeepers' Reporter	Sheep Herder
Hampshire Herdsman	Sheepman
Heredity	Speech Monographs
Hog Breeder	Steel
Human Relations	Taxes
Independent Woman	Wallace's Farmer
Industrial and Labor Relations Review	

Miss Briggs reports that our accessions increased 20 per cent over the previous year. Miss Baer has continued the work of cataloging material for the Rhode Island Collection. Approximately 65 titles were added to this collection, chiefly by gift. Two hundred and twenty new titles were added to the Continuations Check List.

Miss Joyce and Mrs. Beall have made real progress with

maps sent us by the Army Map Service. We have kept up with the sorting, arranging, marking and matching them with the Library of Congress Cards. Recently we acquired 6 wooden map cases for horizontal shelving, copied from those in use in the Harvard Institute of Geographical Exploration. These cases supplement our metal plan file in which our earlier accessions were shelved. We have manufactured our own folders. The maps are arranged in the cases according to the Library of Congress classification and a new catalog case has been purchased for our card catalog of maps.

The work on the U. S. Government Documents has been progressing slowly. On August 1, Miss Diana Hutchinson, a recent graduate of the Simmons College Library School, joined our staff as assistant librarian in charge of documents. It is anticipated that many of the more important documents will be classified and cataloged with Library of Congress Cards in the Public Catalog, thereby making them more accessible to the public.

The use made of documents has grown considerably during the past year and it is anticipated that this use will be further increased with their improved availability.

SERVICE TO READERS' DIVISION

Miss Elliott reports an increase of 20 per cent in the number of volumes loaned for home use to students. Our service to Readers' Division has long felt the need for separate quarters for the reserved books, particularly for the courses in the Social Sciences. In the basement of the library building, we are renovating a stack room which will be used as a new reserve book room in September. It will then be possible to relieve much of the congestion at the main desk which will now be limited to the work of the Reference Department and the circulation of material for home use.

LIBRARY COOPERATION

The University of Nymegen Library in the Netherlands has been sent a considerable amount of duplicate material, selected by a representative of the University who called at Kingston last summer.

The State College Library is cooperating with the research libraries of the country in the Farmington Plan of European book acquisition. This plan, sponsored by the Association of Research Libraries, and administered at present by the New York Public Library, makes it possible, by a subject division, for scholars in this country to have access to at least one copy of every important title published in Switzerland, Sweden and France. It is expected that the plan will be extended to include other European countries in the near future. The State College Library is at present receiving material in the S (Agriculture) class, dealing with farm economics, agricultural chemistry, and fertilizers (S 561-760), field crops (SB 183-317), pests and diseases, economic zoology, and economic entomology (SB 599-999). By the nature of the plan our resources in these fields will be greatly strengthened. Our holdings will be recorded, not only in our own catalog, but in the Union Catalog in the Library of Congress in Washington.

EQUIPMENT

The installation of the stack elevator in the spring of 1948 was the major improvement of our physical facilities accomplished during the year. This long overdue piece of equipment has made it possible to store, in our attic, nearly all of the material formerly housed in the basement stack room. It has also meant that the basement receiving room can now be used to advantage for the opening of all packages. Two new desks and chairs for staff were acquired as well as 36 new chairs for our new reserve book reading room.

REPORT OF THE COMMITTEE ON BACHELOR OF ARTS DEGREE

A subcommittee on the library, with the Librarian as chairman, checked our holdings against the "List of Books for College Libraries," by Charles B. Shaw in the fields of literature, American and European history, political science, economics, philosophy, Latin, and Greek. As criteria for subscriptions to periodicals, we used the periodicals recommended by Shaw, the "G. R. Lyle Classified List of Periodicals for a College Library," published in 1938 and the "Classified List of Reference Books and Periodicals for College Libraries," published in 1947 by the

Southern Association of Colleges and Secondary Schools. Our book holdings, as well as our periodical subscriptions in philosophy, Latin, and Greek, are meager for the obvious reason that courses in these subjects are not being taught at the present time. The recommendation of the General Committee was that funds should be appropriated annually for the purchase of material in philosophy and Latin. The committee seemed to be satisfied that the holdings of the library in other liberal arts subjects were adequate for the offering of the Bachelor of Arts degree.

NEEDS

Our greatest need is for additional physical space. Our stacks have now reached the saturation point and our attic is overflowing. Some added stack space must be found for library accessions in the immediate future. Our other paramount need is for a substantial increase in our book appropriation. With the greatly increased cost of books and periodicals our static book budget means that we are going to be able to purchase fewer titles and fewer periodicals than during the past year. This is a calamity when coupled with our new Bachelor of Arts degree program which needs greatly increased library holdings.

F. P. ALLEN, *Librarian and
Professor of Bibliography*

The School of Agriculture

THE total enrollment in the School of Agriculture for the year was 146, which exceeds all previous records in the history of the College. Of the entering students, six were awarded Sears, Roebuck Foundation scholarships. Two new scholarships have been made available through the John Samuel Clapper Memorial Grant. The fund provides \$100 and \$50, to be awarded to the students ranking first and second in the study of turf management.

For the first time, this School has received one of the Danforth Foundation fellowships. The award makes it possible for the outstanding junior in agriculture to spend two weeks in St. Louis as a guest of the Ralston Purina Company and two weeks at Camp Miniwanca on the shores of Lake Michigan. Robert Wakefield is the recipient of the fellowship this year. The Dr. Charles H. Hood scholarship was granted to Gordon Sargent, and the W. Atlee Burpee Company award went to Walter Larmie.

GIFTS AND GRANTS

American Cyanamid Company, New York, to study the destruction of weed seeds in soil.....	\$1,000
Attapulugus Clay Company, Philadelphia, Pennsylvania, to develop diluent and carrier ingredients for insecticidal and fungicidal dusts and powders.....	5,000
F. A. Bartlett Tree Expert Company, Stamford, Connecticut, to study tree therapeutics	500
Bridgeport Brass Company, Bridgeport, Connecticut, to develop aerosol pesticides	2,500
Orville O. Clapper, West Newton, Massachusetts, to study turf culture.....	500
Charles M. Cox Company, Boston, Massachusetts, for mastitis control studies....	1,000
Gallowhur Chemical Company, New York, for the development of pesticides....	2,500
General Chemical Division, Allied Chemical and Dye Corporation, New York, for research in plant pathology.....	800
Givaudan-Delawanna, Inc., New York, to develop seed disinfectants and fungicidal sprays	1,000
Lederle Laboratories, Pearl River, New York, to study Newcastle disease vaccine for poultry	500
Mallinckrodt Chemical Works, St. Louis, Missouri, to develop and test turf fungicides	750
Merck & Company, Rahway, New Jersey, to study sulfaquinoxaline in the control of poultry diseases.....	2,500
Merck & Company, Rahway, New Jersey, to study the fungistatic, fungicidal and phytocidal properties of certain chemicals.....	4,795
Refrigeration Research Foundation, Berkeley, California, for prestorage treatment to control apple scald, and work on humidity in apple storage.....	2,750

Rhode Island Fruit Growers' Association, Chepachet, Rhode Island, for research in apple storage.....	800
Shell Oil Company, New York, to study control of pests by fungicides, insecticides and herbicides.....	500
Standard Oil Development Company, Elizabeth, New Jersey, to study petroleum products as herbicidal agents, particularly crabgrass killers.....	600
U. S. Golf Association, Beltsville, Maryland, for studies on improvement and maintenance of turf.....	400
Total	\$28,395

EQUIPMENT

Three more Quonset huts have been acquired. One was erected at the agronomy experimental plots and equipped with a drying room where hay and other forage samples can be handled. Another hut was attached to the Experiment Station greenhouse to provide a work room and storage space. The third was set up at the Peckham Farm for storage of seeds, fertilizer and equipment of the Horticulture Department.

The barn cleaner purchased by the Dairy Department will save a great deal of labor. A stake body dump truck was bought for use in farm operations and has aided materially in the transportation of the grass crop to the silo.

Contracts have been let for the construction of an ice cream hardening room in the college dairy and for finishing and equipping a laboratory for ice cream manufacture. A course in ice cream making will be offered in the fall semester.

After a lapse during the war years, the work in ornamental horticulture and landscaping was reinstated and increased. Two new courses were added, one on the storage of fruits and vegetables, and the other on floral design.

At the greenhouses an additional unit was secured to refrigerate the bulb storage; the propagation house was also greatly improved for classroom work by the installation of constant water-level beds, heating coils and humidity equipment. A Flake Ice machine was acquired to provide better handling of vegetable crops, and a Farmall-A tractor was purchased for use at the East Farm.

The picnic area is being regraded and the fireplace has been rebuilt to improve the facilities for groups who wish to use the grounds when they come to the College for meetings.

COLLEGE FARM

The Horticulture Department continued to provide fresh vegetables and fruits for the College Commons. Surpluses of certain items have been frozen and stored at the East Farm. From the Agronomy Department's experimental plots about 2,000 bushels of potatoes were provided for the Commons, while the College dairy furnished 107,558 quarts of milk and 4,566 quarts of cream during the year.

About 25 acres of the Peckham Farm land purchased in 1944 was cleared with a bulldozer, in cooperation with the Soil Conservation Service. This acreage has been put into production by seeding it to forage crops. It is planned to clear an even larger acreage of this land the coming year.

DAIRY HERD

All four breeds owned by the College were classified for type by the respective breed associations. A tabulation of the results shows the following comparisons:

<i>Breed</i>	<i>Excellent</i>	<i>Very Good</i>	<i>Good Plus</i>	<i>Good</i>	<i>Fair</i>	<i>Average Score</i>
Ayrshire	1	8	4	0	0	86.3
Guernsey	0	0	7	11	1	79.1
Holstein	0	1	7	6	3	78.8
Jersey	0	7	9	0	0	84.7

The score of 86.3 gave the Ayrshires the distinction of being the highest-scoring college-owned Ayrshire herd in the nation. The Guernseys were classified for the first time this year but it was the fourth classification for the Holstein herd.

The college-owned cows were outstanding in production as well as in their type and conformation. The annual report of the Southern Rhode Island Dairy Herd Improvement Association showed that 61 milking cows during the year produced an average of 9,318 pounds of milk and 415 pounds of butterfat per cow. Herd Improvement Registry yearly summaries showed averages of 388 pounds of fat for the Ayrshires, 423 for the Holsteins, and 426 for the Jerseys. A Guernsey junior two-year-old, Diana of R.I.S.C., set a state champion record during the year with her production of 9,021 pounds of milk and 403 pounds of butterfat while on test.

The college Ayrshire herd qualified on the basis of its type and production for its first Constructive Breeder's Award. The Jersey herd also attained the distinction of qualifying for the Progressive Breeder's Registry.

Young stock in the Ayrshire herd was shown at the Ninth Annual Rhode Island Ayrshire Club Show in May. A junior yearling, Rhody General Goodbye, won first in her class and was reserve champion of the show. She was shown later at Springfield, Massachusetts, at the National Convention Show and placed tenth in a very strong class. The get of the college-owned sire, Elmknowl Champion Douglas, placed second in a class of seven.

The College has continued to take an active part in artificial insemination in the state. The Animal and Dairy Husbandry Department has been cooperating with the newly formed artificial breeding organization by furnishing and processing semen for the use of the members. A grant of \$20,000 has been made available to the Rhode Island Breeder's Co-operative, Inc. by the State Legislature for the construction of a laboratory and bull barn for the artificial insemination program. These structures will be erected on the college dairy farm.

RHODE ISLAND EGG LAYING CONTEST

The eleven states from which entries in the Seventeenth Rhode Island Egg Laying Contest came represented widely distributed regions of the United States.

On the basis of all birds originally housed October 1, the average production per bird in the Rhode Island Red breed was 226 eggs with 237.39 points. This earned score was considerably higher than the average for all breeds entered in the contest, i.e., 211.6 eggs representing 220.76 points. The Rhode Island Reds outlaid all other breeds and varieties entered in the contest for the year.

Several new Rhode Island contest records were established. The new pen production record for Barred Plymouth Rocks was 3,448 eggs. The new egg and point record for an individual Barred Plymouth Rock was 328 eggs and 358.4 points. A new pen production and point record of 2,996 eggs and 3,090 points

was established for the White Plymouth Rock breed. In the New Hampshire breed, new pen and individual bird records were established; the pen record was 3,194 eggs and 3,345.95 points, and the individual bird record was 334 eggs with 348.2 points.

The total mortality during this contest was 14.62 per cent, approximately one per cent higher than that of the preceding contest. Entries from Rhode Island breeders suffered only 9.23 per cent mortality, a much lower figure than from any other state or region.

During the year a new overhead watering system was installed in each of the 50 pens. An anti-freezing device consisting of thermostatically controlled soil cable was installed with the watering system.

DIAGNOSTIC SERVICE

More and more the poultry farmers of the state are availing themselves of the benefits of the College's diagnostic service. A total of 189 farms sent in specimens during the year as compared to 167 for the previous year. From the 189 farms there were 293 submissions consisting of 964 specimens.

Again this year leucosis, the respiratory diseases and coccidiosis were the most prevalent disorders diagnosed in semi-mature and adult stock. In baby chicks, the heaviest losses were caused by respiratory diseases, then by avian encephalomyelitis and vitamin deficiencies. Newcastle disease was diagnosed in 20 cases this year as compared to 4 cases the previous year. It is hoped that with the increased prevalence of Newcastle disease, a program of immunization can be developed to aid the poultrymen in combatting the disorder.

Turkey specimens were submitted from 20 farms. Black-head and vitamin-D deficiency were the two outstanding diagnoses.

FEED AND FERTILIZER CONTROL SERVICE

As a technical basis for enforcement of state laws governing the quality of feeds and fertilizers, members of the Agricultural Chemistry Department analyzed 140 official samples

of fertilizers and limes, and 458 samples of feeds. These analyses were reported to officials of the State Department of Agriculture and Conservation, who administer these laws, and to manufacturers, dealers, and consumers. Similar laws are in effect in all states and help maintain standards of quality. The results of the inspection are published annually in the Feed and Fertilizer Circular.

SOIL ANALYSES

Approximately 1,200 samples of soil were inspected for farmers, home owners, and managers of golf courses and cemeteries. The samples were taken by the owners and sent to the extension agronomist at Kingston, or to the county agent. The results of the analyses aid the specialists of the Agricultural Extension Service and county agents in making recommendations for fertilizing and liming the various farm crops and ornamentals grown in the state. Similar services are performed by many states, and the value of such soil tests is receiving increasing recognition. In Rhode Island this work is done without cost to the landowner.

MEETINGS

The following agricultural meetings took place at the College:

The Rhode Island Potato Growers' Association held its annual field day August 1, 1947. The experiments on new varieties, fertilizer application, spraying and dusting were inspected and discussed. About 100 growers and other interested persons attended.

The Southern New England Chapter of the Soil Conservation Society met August 7. In the morning the pasture research plots at Kingston were visited and in the afternoon a tour was made of the Soil Conservation Service projects in Newport.

A mid-August meeting of the Rhode Island Beekeepers' Association was held at the East Farm.

The Rhode Island Fruit Growers' Association spent the day of August 14 at the East Farm orchards and buildings. Current experimental work on fruit production and storage was reviewed; in the afternoon, growers and station workers participated in a panel discussion on the research program of the future.

On September 9 the annual field day of the Greenkeepers' Association was held to study the experiments in turf culture. The following day a group interested in lawn and garden problems met to see and discuss these phases of the research work being conducted by the Agronomy and Horticulture departments.

A joint annual meeting of the Rhode Island Poultry Producers' Association and the Rhode Island Turkey Producers' Association took place October 22. A discussion of the poultry disease research then in progress preceded the serving of barbecued turkey.

The first Rhode Island flock selecting agents' school was held December 23; two agents were accredited to work in the state under the National Poultry Improvement Plan.

Two well-attended state-wide poultry breeding schools were held at East Farm, one the evening of February 3, 1948 and the other on April 13.

The College played host on March 24 to the Rhode Island Veterinary Medical Association. The dinner meeting was followed by the showing of a film, then a discussion period.

The Soil Conservation Day program took place May 4. The event was sponsored by the State Soil Conservation districts, the Wildlife Federation and the State Committee of Production and Marketing Administration. Dr. Hugh Bennett, Chief of the Soil Conservation Service, was the principal speaker.

High school students of vocational agriculture throughout the state spent May 19 on the campus. Their program included contests in dairy cattle, poultry and egg judging, and fruit tree grafting, as well as a tour of the college farms, where demonstrations and explanations were given of the work under way.

The dates of the 4-H Club Camp were June 27-July 1. Daily instruction was given in dairy and poultry husbandry, landscaping, farm shop and tractor maintenance. There were also hobby projects, classes in swimming and water safety, and recreational programs.

The agricultural science seminar met twice a month during the academic year, and the results of current research were presented and discussed. Visiting speakers who addressed the group included Dr. William Rudolfs, Professor of Sanitation from Rutgers University, and Dr. Ehrenfried E. Pfeiffer, biodynamic farmer from New York.

EXTRA-CURRICULAR ACTIVITIES

Cooperating with the Agricultural Experiment Station and the Extension Service in Agriculture and Home Economics, the College carried on the following activities:

A four-day Rhode Island Agricultural Conference and Southern New England Farm and Home Show was held in Providence, March 3-6, 1948. The event was sponsored by the Rhode Island State Department of Agriculture and Conservation, the Rhode Island Agricultural Conference, and the College. Exhibits in three booths at the farm show illustrated the work of the College; this year, dairying and its ramifications were emphasized.

Members of the Agricultural Economics Department contributed to and reviewed reports of two subcommittees of the North Central and Northeastern Dairy Marketing Committee. Staff members also represented New England on the subcommittee on Seasonal Milk Price Plans. An article was prepared on Rhode Island for the 1948 issue of the Britannica Book of the Year, and data were compiled on 1947 Rhode Island farm production and income for the Providence Journal Almanac and the Annual Report of the State Department of Agriculture and Conservation. Members of the staff assisted the Agricultural Committee of the Rhode Island Bankers' Association with

plans for a Connecticut-Rhode Island Farm Credit School held at the University of Connecticut in June.

Dr. John L. Tennant served as Secretary of the Rhode Island Agricultural Conference, and Secretary-Treasurer of the New England Institute of Cooperation.

Professor J. B. Smith and Dr. T. E. Odland served (the latter as chairman) on Governor Pastore's committee appointed to study the possibilities of converting sewage sludge and other waste products into fertilizer or other useful commodities. A survey was made of the sewage sludge production in the state and the possibility of converting other waste material into useful products was investigated. A report on the findings of the committee was prepared and submitted to the Governor.

Dr. Everett P. Christopher was a member of the faculty of the Cold Storage Training School in Rochester, New York, under the sponsorship of the Refrigeration Research Foundation.

Dr. L. G. Brown of the Sociology Department wrote a book, **The People Are Guilty**, which he submitted in a contest. It will be published when parts of the manuscript have been rewritten. He also gave six extra-curricular lectures, four of them in Providence.

Dr. Richard A. Schermerhorn wrote the manuscript for a textbook on minority peoples.

The published articles by members of the faculty are listed on page 112.

MASON H. CAMPBELL, *Dean*

The School of Home Economics

THE 1947-48 enrollment in the School of Home Economics showed an increase over the previous year.

Departmentalization was started during the past year. Three departments were approved as follows:

Foods and Nutrition, Professor Edith L. Andrews, Head
Textiles and Clothing, Professor Dagmar C. Gustafson, Head
Child Development and Family Relations, Dr. Dora-Louise Cockrell, Head

There were two faculty resignations and six new appointments during the year. One appointment of significance was in the field of Home Economics teacher education. This new position provides for a full-time person to teach courses in Home Economics education and to plan and supervise the practice experience of seniors preparing to teach Home Economics.

RESIDENT TEACHING

The total enrollment in courses offered by the School of Home Economics increased because of a larger number of students registered in other schools of the college electing courses in Home Economics. Instruction was given to 209 non-Home Economics students during the past year. This trend is to be encouraged since Home Economics has much to offer to the general education of all students.

To provide observation and practice experience with young children for students majoring in the Department of Child Development and Family Relations and all freshmen and sophomores in the School of Home Economics, the Nursery School staff conducted play schools for pre-school children during the afternoon in addition to the regular morning Nursery School session. Forty-two children attended the morning and afternoon sessions in the Nursery School. This expanded program of the Nursery School does not yet provide sufficient laboratory experience for all of the students enrolled in the courses offered by the Department of Child Development and Family Relations. All freshmen and sophomores in Home Economics are required to have some observation and practice

experience with children. Additional practice experience is required for approximately thirty-five juniors and seniors majoring in this field. It has been necessary to use other community resources to provide sufficient laboratory experience.

Fourteen seniors majoring in Child Development and Family Relations were placed in various child care centers of the state for supervised practice. These centers included nursery schools connected with community centers, social agencies as well as private nursery schools. The seniors majoring in teacher training in Home Economics obtained supervised teaching experience in six junior and senior high schools in the state.

RESEARCH

New research was started in two major areas during the past year. With funds made available by Congress under the Hope-Flannigan Act studies in nutritional status and in housing were undertaken.

The nutritional status study will correlate studies of dietary intake, microchemical blood studies for certain nutrients and clinical examinations as a basis for measurement. The housing research is a study of farm house requirements.

PHYSICAL PLANT AND EQUIPMENT

Among the improvements in laboratory facilities during the year, was the purchase of textile and clothing equipment including a textile abraser, precision twist tester, pick counters, microscopes and additional sewing machines. A sixteen millimeter sound projector and portable screen and six films in the field of Child Development and Family Relations were purchased.

PROFESSIONAL ACTIVITIES

Members of the faculty continued to work actively in national and state professional organizations, among them the American Home Economics Association, the American Dietetic Association, the Rhode Island Home Economics Association and the Rhode Island Dietetic Association as well as other professional organizations.

Members of the faculty accepted many speaking engagements during the year. The requests came from many types of organizations including the League of Women Voters, the Parent-Teacher Association, the Grange, as well as the professional associations concerned with the field of Home Economics and nursery school education.

The faculty continued a curriculum study in Home Economics undertaken by an intercollege group of New England institutions. One member of the faculty has served as chairman of the steering committee for this study.

The faculty was represented at the National Conference on Family Life held in Washington, D. C. May 5 to May 8, 1948. One member assumed a very active part in planning one of the sectional meetings for this conference.

There has been active participation in radio programs and in the program of family life education sponsored by the colleges of Rhode Island and the Rhode Island Social Hygiene Association.

STUDENT ACTIVITIES

The Home Economics Club made progress this past year in developing a worthwhile program. Club members attended a training school for club officers at the University of Vermont in October. The President of the club attended the annual meeting of the student club department of the American Home Economics Association in Minneapolis, June 21-25, 1948.

COUNSELING

One staff member has continued to give approximately one-fourth time to the school counseling program. Information concerning students was assembled from the records in the Office of Admissions and additional tests were administered to all freshmen in Home Economics. The tests selected were for the purpose of helping students recognize their capacity and vocational interests. Personality and temperament tests were also administered. The vocational guidance program which is an important part of the work in orientation has been extended. Group meetings with specialists in various fields were provided for sophomores, juniors and seniors.

SUMMER SCHOOL

Three graduate workshops were offered during the 1947 summer session. There is evidence of a slow but satisfactory growth in the summer session program offered for teachers and other professional home economists. The introduction of a graduate program leading to the degree Master of Science in Education will permit further expansion of the summer session study in this field.

The summer art workshop first sponsored by the School of Home Economics in 1945 and now an integral part of the summer session continues to grow in service and in enrollment.

EXHIBITIONS

The School of Home Economics has continued to provide art exhibitions for display in Quinn Hall. This past year the exhibitions featured private collections owned by members of the faculty and residents of Kingston. The School of Home Economics in cooperation with the South County Art Association sponsored an exhibit of woven and printed textiles of period and contemporary design loaned by the Scalmandre Museum of Textiles. The exhibit was shown during May at Helme House, in Kingston, the headquarters of the South County Art Association.

Respectfully submitted,

OLGA P. BRUCHER, *Dean*

The School of Engineering

THE School of Engineering can report considerable progress in many directions in the year just concluded. However, its principal problem has been to provide adequate instruction and laboratory facilities in the face of expanded enrollments. The largest sophomore class in its history caused a very heavy teaching program in mathematics and physics and taxed the laboratories to the limit. This pressure will continue to be felt during the next year but because of diversification of subject matter will not be so concentrated.

CURRICULUM AND COURSE CHANGES

Some curriculum changes have been made in the Civil Engineering Department. The surveying work has been extended through two semesters and additional laboratory work provided in concrete testing. Also, a new course in Public Health Engineering has been added.

In electrical engineering the principal changes have been to offer more of the courses during both semesters in order to handle effectively the greater enrollments in that department.

Minor changes in the industrial engineering curriculum were made as result of reduction in credits in many of the courses offered by the School of Business Administration.

In mechanical engineering a new course in Gas Turbine Design is to be offered.

In the Department of Mathematics two new courses have been added at the graduate level, one in advanced Engineering Mathematics and the other on Fourier Series and Operational Calculus.

Two new graduate courses in the Physics Department, Electro-Magnetic Radiation and Electronics, and Ultra High Frequencies were added during the past year. Also other minor changes in courses were made.

NEW QUARTERS FOR THE MATHEMATICS DEPARTMENT

The Department of Mathematics early in June moved to

new quarters in North Hall, vacating space occupied in Bliss Hall since the building was built. The department now has one private office for the head of the department, one large room as an office for five other staff members and one smaller room for the secretary and for storage of office supplies. Two class rooms have been provided with blackboard facilities completely around each room and with other class rooms available when needed.

The new quarters at North Hall are light and attractive and should be a decided improvement over the crowded conditions experienced by the department for several years in Bliss Hall.

REMODELING OF PORTIONS OF BLISS HALL

The space vacated by the Mathematics Department on the third floor is being remodeled to provide much needed additional office space. Five offices will be provided on the south side of the building and will be occupied mostly by members of the Mechanical Engineering Department.

The entire east end of Bliss Hall comprising the main floor and the basement has been remodeled since the space was vacated by the engineering shops. On the main floor, laboratories have been provided for metallurgy, sanitary engineering, fuels and boiler feed water testing and chemical engineering research. On the basement floor, new quarters have been provided for the main equipment laboratory of the Chemical Engineering Department and a new and larger cement laboratory has been set up for the Civil Engineering Department. Also, additional space has been provided for work in refrigeration and air conditioning in the mechanical engineering laboratory and for industrial electronics equipment in the electrical engineering laboratory.

These improvements will provide additional laboratory facilities and instruction in fields of work which have for some time been greatly needed.

OTHER IMPROVEMENTS IN FACILITIES

The materials testing laboratory has been completely renovated this year and several new pieces of equipment added.

An extensive revision of the layout of the electrical machinery laboratory has taken place, resulting in greater efficiency in the use of space and more systematic planning of experiments. Much new equipment obtained by members of the staff from Army and Navy surplus property has been added to the radio laboratory and many new pieces of radar equipment have been set up in a Quonset hut for instruction in electrical engineering courses. A new motion and time study laboratory has been equipped and put into operation in two Quonset huts east of East Hall. One hut is used for lectures, micro-motion study, motion picture projection and special projects, while the other hut is used for laboratory experiments in motion and time study. Although more equipment is needed, a great deal has been accomplished in the one year the laboratory has been in operation. Some improvements have been made also in the mechanical engineering laboratory by addition of new equipment and revamping of equipment already installed.

ACTIVITIES OF THE STAFF

The faculty of the School of Engineering at the beginning of the past year initiated a plan to have outstanding industrial leaders in the state speak on topics relating to their respective companies, at monthly dinner meetings held at the Kingston Inn. This plan had for its purpose the promotion of closer relations between faculty and industry and the acquaintance of the faculty with the important industries of the state. Six successful meetings were held during the year representing such industries as textiles, rubber, silver and jewelry, machine tools, control devices and public sanitation. The attendance was good at these meetings and the faculty has been quite enthusiastic about them.

Several members of the staff are writing text books and contributing to other publications. Dr. John G. Albright's book on "College Physics," published in January, will be adopted for use in the course in Engineering Physics next fall. Dr. E. M. J. Pease's book on "Intermediate College Algebra" has been accepted for publication by Prentice-Hall Company and Dr. Harry A. Bender's book on "College Algebra" by Pitman Publishing Company.

Dr. Edward M. J. Pease has served as a member of the program committee of the New England section of the American Society for Engineering Education during the past year.

Professor Raymond H. Stockard was elected to the Executive Committee of the Providence section of the American Society of Mechanical Engineers.

Mr. Robert V. Bardsley of the Electrical Engineering Department spent a great deal of time assisting the Department of Buildings and Grounds in the designing and supervising of electrical installations in several of the college buildings.

Members of the staff attended many local and national meetings during the year.

Eleven members of the staff gave courses in the Division of General College Extension in Providence.

ENGINEERING EXPERIMENT STATION

On May 22, 1948, the Industrial Advisory Council of the Station was reactivated and a joint meeting was held on the campus with the Research Council. Many problems pertinent to the future development of the station were discussed.

The project on the development of a new magnetic shuttle device for textile looms was brought to a conclusion and resulted in an invention which is believed to be patentable. Much credit is due Prof. William Birtwell who directed the project.

The study of the industrial uses of Rhode Island coal was continued on a part-time basis during the year.

Prof. Kenneth H. Mairs began a study on, "The Corrosion of Water Pipes at the Rhode Island State College."

Prof. Edson I. Schock initiated a project on, "A Study of the Attachment of Wire Stays to Wooden Spars in Yachts and Commercial Vessels."

Dr. John G. Albright assumed the direction of a project to be continued for two years on, "A Study of the Physical Properties of the Upper Atmosphere." This project is part of a larger program of study being carried on by the Watson Laboratories of the Air Materiel Command.

T. STEPHEN CRAWFORD, *Dean*

The School of Arts and Sciences

ANOTHER year of academic growth and progress for the School of Arts and Sciences has been brought to a close. The greatly increased enrollments of the previous year have been sustained, and in some instances further increases have occurred. Our primary objective has been not to accommodate more students, but with maximum numbers already at hand, to build for academic quality and strength in all departments of the school. Adjustments for the handling of large numbers have been resolved, classroom facilities have been enlarged or improved, the school has functioned more efficiently and more effectively with the result that both the degree and the quality of its services have been advanced.

Veterans continue to comprise the majority in most of the classes of this school. This situation will gradually change as veterans graduate and greater numbers of non-veterans are admitted. A degree of unrest has been observed in both the veteran and non-veteran student during the year. This may be a contributing cause to the increase in the number of failures that have occurred. The economic factor—ever-increasing living costs and the growing inadequacy of the subsistence allowance—has affected the veteran, while the military factor—or the uncertainty of the peace-time training to be required by the armed services—has had its impact on the non-veteran. Federal legislation passed during the year should remove, to a large degree, these elements of instability and insecurity that have been increasingly apparent in the attitudes and in the accomplishments of both the veteran and the non-veteran student.

STAFF CHANGES

Changes in the teaching staff, primarily at the instructor level, continued to be numerous. This was occasioned by a number of part-time appointments that were necessary to care for increased enrollments and also by several resignations for the purpose of pursuing graduate work at other institutions. Two have resigned to accept appointments at other colleges, two have resigned to accept positions in private busi-

ness, and one has resigned to engage in matrimony. The staff changes are listed on pages 105-111.

TEACHING PROGRAM

Many adjustments in the scheduling of classes and in the assignment of personnel have been necessary during the year. These have been made with a minimum of confusion, and the entire teaching program has operated more smoothly than last year. Our desire to build for academic strength has been apparent in the work of both individuals and of departments.

Two curricula of the school have undergone considerable study during the year. The curriculum in Chemistry has been revised to bring it in complete compliance with the recommendations of the American Chemical Society, not only as to required technical courses in chemistry, mathematics and physics, but also as to elective courses in the humanities and the social sciences. This curriculum will become effective with the graduating class of 1950. The curriculum in General Teacher Training has undergone a number of changes designed to give (1) a more liberal training to the prospective teacher, and (2) to provide the prospective teacher with more effective classroom techniques. The revised curriculum in General Teacher Education is to be effective with the entering class of 1948.

The staffs of the departments of bacteriology, botany and zoology have met in an informal luncheon hour each week and have developed a syllabus for a course in General Biology which it is proposed to offer during the academic year 1948-49. The course is substantial in content and is designed to meet the needs of general education in biological science. It will be required of students in General Teacher Education and will be elective for students in Liberal Studies desiring to use it as the requirement for a laboratory science.

RESEARCH ACTIVITIES

It is gratifying to note that, in spite of the adverse conditions for the pursuit of research as created by large enrollments and crowded conditions, we can report research activity by a substantial number of our staff and including most of the departments of the school.

1. GRANTS-IN-AID

By including an item for research in the budget of the school for the fiscal year, we have been able to provide both encouragement and material assistance to several members of the staff in the pursuit of their research projects. Eight grants-in-aid were made to as many members of the staff and including six departments. These grants varied in amounts from \$75 to \$300. Five of the grants involved research in connection with the production of manuscripts for textbooks. A list of the grants-in-aid follows:—

<i>Department</i>	<i>Title of Project</i>	<i>By Whom Carried On</i>	<i>Amount</i>
Bacteriology	Research in connection with text-book on immunology	Dr. Philip L. Carpenter	\$250.00
Botany	Anatomy of the phloem and xylem in the Palms	Dr. Vernon I. Cheadle	300.00
Botany	Taxonomy of the <i>Characeae</i>	Dr. Richard D. Wood	300.00
English	Anthology of Victorian Lyric Poetry	Dr. Paul S. Reynolds	75.00
Physical Education for Men	The Construction of Weight Circles and Runways and Take-offs for Pole Vault, High Jump and Broad Jump	Prof. Frederick D. Tootell	100.00
Sociology	Development of two textbooks	Dr. L. Guy Brown	200.00
Sociology	Development of a textbook	Dr. R. A. Schermerhorn	75.00
Zoology	Taxonomy of the Tunicates	Dr. Donald J. Zinn	125.00
			\$1,425.00

2. SABBATICAL LEAVE

The plan for sabbatical leave, developed by the Committee on College Policy and approved by the Board of Trustees during the current year, received its initial application from a member of the School of Science. It is with pleasure and pride that we record the approval of the request of Dr. Daniel H. Thomas for sabbatical leave for a period of one year for the purpose of travel and study abroad—primarily in Belgium and France—and for work in the libraries of Europe on his research projects concerning the history of Belgium.

3. RESEARCH PROJECTS

A list of research projects by departments and individuals is given below.

Bacteriology

1. Dr. Philip L. Carpenter:
 - a. Directed a student project on the microbial flora of Tucker's Pond in South

Kingstown. The data were presented in part by Mr. Frederick Weber, Jr. at the New England Biology Conference.

- b. Began work on the bibliographic research incidental to preparation of an elementary textbook of immunology. Under a grant-in-aid, over a thousand reprints of recent work have been collected and indexed and are now in process of cataloging.

Botany

1. Dr. Vernon I. Cheadle:
Further research on conducting tissues in the *Monocotyledoneae*.
 - a. One paper published (see p. 113) and two additional papers in press.
 - b. Under a grant-in-aid, a collection of palm material from the Chicago Museum of Natural History has been obtained and is receiving treatment that precedes preparation of slides. Additional material is being secured from the collection of tropical woods at the Yale Forestry School.
 - c. Cooperative enterprise on Trustom Pond (see 4b, below).
2. Dr. Thomas C. Fuller:
Paper published (see p. 113).
3. Dr. Frank L. Howard:
Research credited to Agricultural Experiment Station, Plant Pathology-Entomology department of which Dr. Howard is chairman. (See p. 112). Major projects in fungicide development, chemotherapy, fungicide aerosols and fungicide-in-oil concentrates. Dr. Howard is also an advisor to industry in fungicides and their formulation.
4. Dr. Elmer A. Palmatier:
 - a. Direction of thesis problems of two graduate students:
Bryophytes of southern Rhode Island, by Ida Miele.
Limnological studies of Tucker Pond, by Kenneth W. Kaye.
 - b. Marsh and aquatic vegetation of Trustom Pond, with special reference to plants of value as food for waterfowl. This work, in partnership with Dr. Cheadle, was under a grant from the Wildlife Management Institute.
Paper was given at Northeastern Game Conference. A preliminary study of a salt-water pond in Rhode Island and its educational implications (Cheadle and Palmatier) will be published in the proceedings of the Conference.
 - c. Direction of a student project on *Rhododendron maximum* in South County, undertaken by Margaret Gilbert and Bernice Anderson. Results presented as a paper and a fine exhibit at the Biological Conference of Eastern New England Colleges. The paper was published in part in the Narragansett Times as an item of local public interest.
5. Dr. Richard D. Wood:
 - a. Direction of graduate student research problem on "Buffer Capacity Determination of Pond Water".
 - b. Continued work under a grant-in-aid on the *Characeae* of North America.
 - c. Curating of two herbaria of *Characeae*:
 - (1) The herbarium of the University of Minnesota.
 - (2) The combined herbaria of Professor W. R. Taylor and the University of Michigan.
 - d. Completion of two manuscripts now in press.
 - e. Published paper (see p. 113).
 - f. Paper read before the Phycological Society of America, at December, 1947, meetings—"The case against a separate division or phylum for the *Characeae*".

Chemistry

1. Dr. W. George Parks:
 - a. Research on the catalytic pyrolysis and decomposition of cellulose was begun.

The objective of this project is to provide fundamental information of value in developing an efficient, durable flameproofing treatment for textiles. This investigation is supported by a contract with the Office of Naval Research.

- b. The investigation of the preparation of polyhydric alcohols was continued during the year. This project is supported by the U. S. Industrial Chemicals, Inc.
 - c. The investigation of the preparation of benzaldehyde from toluene was continued.
 - d. An investigation of the preparation of special textile finishing chemicals was started.
2. Dr. Eugene C. Winslow:
 - a. The preparation of fumaric nitrile from methyl fumarate (or methyl maleate) with ammonia in the vapor phase.
 - b. The preparation of derivatives of mellitic acid.
 3. Mr. Alexander M. Cruickshank:

Numerous research problems and industrial investigations have been conducted in cooperation with Dr. Parks.

Education and Psychology

1. Dr. Frank M. Pelton:

Comparison of the results of entrance examinations with scholastic achievement of the 1946 Freshmen for that academic year was completed. This study was carried on in collaboration with Professor Mabel E. Dickson. It is proposed to continue the study for the same class through the past academic year. A similar study will be made for the 1947 Freshmen. The results of these studies will aid in evaluating the effectiveness of entrance tests used in our admissions program.

English

1. Dr. Paul E. Reynolds:
 - a. Paper published (see p. 113).
 - b. "The Theme of Integrity in Conrad", submitted to *College English*.
 - c. "What is a Good College Teacher?", submitted to *Bulletin of American Association of University Professors*.
 - d. "The Paradox of Dickens", completed but not yet submitted for publication.
 - e. "A Humble Remonstrance", submitted to *The Critic*.
 - f. "A Selection of Victorian Lyrics", an anthology completed under a grant-in-aid.
2. Dr. Warren D. D. Smith has the following articles in preparation:
 - a. "New Light on the Marginal Directions in Shakespeare".
 - b. "The Shakespearean Apostrophe".
 - c. "The Third Type of Shakespearean Aside".
 - d. "Stage Awareness of the Elizabethan Aside".
 - e. "Artful Limitation of Length in the Shakespearean Monolog".

He has completed and is scheduled to publish his doctoral dissertation, *Shakespeare's Stagecraft*.
3. Mr. Robert P. Sorlien has the following article in preparation:
 - a. "The English Olympicks of Captain Robert Dover".
4. Dr. Lillian D. Bloom:
 - a. Paper published (see p. 113).
 - b. "Addison's Latin Translations: A Problem in Neo-Classical Scholarship" has been accepted for publication by *Studies in Philology*.
 - c. "Willa Cather's Novels of the Frontier: A Study in Thematic Symbolism" has been submitted to *American Literature*.
 - d. In preparation, another article on Addison and in outline, a book-length critical study on the same author.

Geology and Geography

1. Mr. Leonard W. Weis:
Started work on two problems concerning the local geology. The first has to do with the glaciation, in particular the most recent stage, of the area generally referred to as the Watch Hill moraine. The other, closely related, concerns the shore developments.

History and Political Science

1. Dr. Daniel H. Thomas:
 - a. Completed the research necessary for a revised and enlarged "History" section of the Penguin edition of *Good Reading*.
 - b. Preparation for forthcoming sabbatical leave under a grant of a C. R. B. Advanced Fellowship by the Belgium American Educational Foundation.
2. Dr. William A. Itter:
Revising his study of "Civil War Conscription in Pennsylvania", in which the Historical Commission of Pennsylvania has expressed an interest in possible publication.
3. Dr. Donald Tilton:
Revising his dissertation and is engaged in preparing two short manuscripts for possible publication.
4. Dr. William D. Metz:
Has continued research for his "History of the Kingston Congregational Church".
5. Professor John O. Stitely:
 - a. Engaged in research on pressure evidences in the legislative process of the Atomic Energy Act of 1946.
 - b. Collecting material for an analysis of state and local government in Rhode Island.

Music

1. Professor Lee C. McCauley:
 - a. In pedagogy, the learning processes of class method teaching in the applied music field have been tried, and the attainments observed.

Physical Education for Men

1. Professor Frederick D. Tootell:
Under a grant-in-aid, has experimented with various methods of construction of Weight Circles, Runways, and Take-offs for Pole Vault, High Jump and Broad Jump.

Physical Education for Women

1. Miss Lillian Nardone:
Correlation of physical examinations given at beginning and end of each school year as a measure of physical improvement through exercise.

Sociology

1. Dr. L. Guy Brown:
 - a. Library research, under grant-in-aid in preparation of manuscript for a text-book.
 - b. Book—"The People are Guilty" submitted in prize competition. The manuscript did not win, but will be published following revision.
 - c. Book Reviews (see p. 113.)
2. Dr. Richard A. Schermerhorn:
 - a. Library Research, under grant-in-aid in preparation of manuscript for a text-book.

Zoology

1. Dr. Herbert C. Knutson:
 - a. Supervised the following student problems:
 - (1) Byron—Compilation of the Forest Insects of Northeast United States.
 - (2) French—Classification of the *Lepidoptera* in the College insect collection.
 - (3) King—Taxonomy of Immature Grasshoppers of Rhode Island.
 - (4) Rose—*Longhorn Grasshoppers of Rhode Island.
 - (5) Stickney—*Grasshoppers of Rhode Island.
 - (6) Heath—Biological Studies of Mosquitoes of Rhode Island.

*Data in part of these problems were presented at the Biological Conference of Eastern New England Colleges.
 - b. Conducted investigation on distribution and biology of Elm Bark Beetle Species in Rhode Island.
2. Dr. Donald J. Zinn:
 - a. Directed one graduate-student problem:

Haven—The Seasonal Distribution of Zooplankton in Tucker Pond, South Kingstown, R. I., with special reference to the *Cladocera*.
 - b. Conducted investigation at the Marine Biological Laboratory, Woods Hole, Massachusetts, during June and the remainder of the summer.

FACULTY ACTIVITIES

The extracurricular activities of the staff on the campus and in the community continue to be varied, extensive and important and reflect a high degree of academic, social and civic responsibility.

A very active year in the professional improvement of the staff has been recorded.

Continued progress, also, has been made in effecting necessary maintenance repairs and in making replacements and additions in the various departments.

NOTEWORTHY EVENTS AND ACCOMPLISHMENTS

1. Plans for the new Chemistry Building, authorized by the referendum election of June, 1946, have been developed by Mr. John Hogan, the architect, in collaboration with the staff of the Department of Chemistry and the Chemistry Alumni Advisory Committee. Much time has been given to the study of the laboratories of other departments of chemistry in neighboring institutions through conferences and visitations.

2. The Department of English has continued its sponsorship of the High School Model Congress and the College Model Congress. The former was unusually successful this year with nineteen high schools represented and well over one-hundred

delegates and observers present. More interest and a larger attendance were also recorded for the latter.

3. The Department of Music sponsored a Fourth Rhode Island State College "Music Series" with the following concerts:

October 28, 1947, "Marriage of Figaro", by Mozart.

December 2, 1947, Richard Dyer-Bennet, Ballads and Folk Songs.

February 24, 1948, The Original Don Cossack Chorus and Dancers.

April 6, 1948, Louis Kaufman, Violinist.

For the third time in the history of the "Music Series" the patronage exhausted the capacity of Edwards Auditorium and created a waiting list of subscribers for the coming season, thus furnishing reassuring proof of public appraisal of the contribution which the college is making to the cultural life of the campus and the community.

4. The Summer Music Camp for High School students was held from July 1 to August 10, 1947 with an enrollment of 100, and the following states were represented: Rhode Island, Connecticut, Massachusetts, New York, New Jersey and Pennsylvania. A visiting faculty of four assisted the three members of our Department of Music in the instruction of the Camp.

With the view to making the Music Camp of greater service to the state, a conference was called last spring with a number of representative music supervisors from various parts of the state in attendance. The college was represented by the head of the Music Department, the director of the Summer Session and the dean of the School. One important decision from this conference was to limit the forthcoming Music Camp to four weeks in the month of July.

5. Our sports program, as conducted by our Department of Physical Education for Men, has enjoyed more than usual success. There have been greatly increased interest and participation in intramural sports. Further progress has been made in the development of plans for an excellent intramural program during the next academic year.

Our varsity sports program was again outstanding. Aside from moderate success in football, our teams were far above the average for colleges of our size. We should be justly proud of our championships in cross-country and track. Our tennis team won the Yankee Conference Championship. The basketball and baseball teams were close competitors for the championship.

Recognition of our coaches has been given in invitations to speak at a number of sports clinics.

6. Our Department of Physical Education for Women has conducted a very successful intramural program in several sports. The annual May Day program was largely attended by students and parents despite very inclement weather.

7. During the year, the Department of Education and Psychology, in collaboration with the departments of English and of History and Political Science, has sponsored meetings on the campus for school superintendents, school principals, teachers of English and social sciences, guidance teachers and counsellors. These meetings have been well attended and have been very effective in developing understanding and good relations between the public schools and the college. The plan should be continued and expanded to include other groups.

8. Two noteworthy events, concerning the recognition of scholarship of faculty and students, took place during the year. These involved the formation of a Sigma Xi Club, with the ultimate objective of petitioning for the establishment of a chapter of the Society of the Sigma Xi on our campus. Approximately one-half of our Sigma Xi membership is in the faculty of this school. The second event was the installation of a chapter of Phi Alpha Theta, a national honor society for the promotion of the study and interest in history, with membership open to both men and women. It is interesting to record that our chapter holds the distinction of being the first one to be installed in New England.

9. The event that commanded the greatest interest of faculty, students and general public during the year, and the event of greatest potential import in the future growth of the college, was the action of the Board of Trustees of State Colleges in approving the granting of the Bachelor of Arts degree by this college. With this action has come the change in name of the School of Science to that of Arts and Sciences. Likewise, our Department of Modern Languages has become the Department of Languages and its course offerings expanded to include Latin. A new Department of Philosophy has been created and courses are being formulated for the coming academic year.

THE NARRAGANSETT MARINE BIOLOGICAL LABORATORY

With the exception of the continuance of the seining project for the tidal ponds along our shores, little investigation has been carried on by the laboratory during the year.

Last April, at the invitation of Senator Theodore Francis Green, in company with Dr. Charles J. Fish, consultant for the Narragansett Marine Biological Laboratory and its former director, I appeared before a sub-committee of the Committee on Interstate and Foreign Commerce of the United States Senate in Washington to present evidence in favor of "a Bill directing the Fish and Wildlife Service of the Department of the Interior to undertake certain studies of the Soft-Shell Clam in Rhode Island, Massachusetts, Connecticut and Maine". The Bill, S-1979, was passed by the second session of the eightieth Congress amended also to include similar studies on the hard-shell clam.

Several conferences during recent months have been held with Dr. Fish in planning the future development of the Narragansett Marine Biological Laboratory. From these conferences have come the decisions (1) to constitute the laboratory as a separate and distinct unit of the School of Arts and Sciences and to be administered on the same basis as any other department, and (2) to organize the work of the laboratory on a year-around basis and to include the following activities:

- a. A program of basic research in marine biology.
- b. A program of applied fisheries investigations.
- c. A program for the training of scientific personnel.

It is anticipated that Dr Fish will return as Director of the Narragansett Marine Biological Laboratory and as Professor of Marine Biology, the latter title to be as a member of the staff of the Department of Zoology.

GENERAL OUTLOOK

WITH SPECIAL REFERENCE TO FUTURE NEEDS AND DEVELOPMENTS

The sustained increase in enrollments continues to create problems in several areas of the school. The crowded conditions in Quinn Hall, especially among the departments of English, History and Political Science, and Languages have been relieved

by the plan to transfer the latter department to North Hall with the beginning of the next academic year.

On the other hand, the situation in Ranger Hall has become increasingly worse. Until such time as the Chemistry Department can vacate, no relief appears possible for the several biology departments. The departments of Botany and Zoology, with the larger registrations, are the most crowded, and for them, enlarged quarters are most urgent. The construction of the new Chemistry Building should be expedited to the greatest possible degree, not only to improve the physical facilities and to alleviate the sorely crowded conditions in the Department of Chemistry, but also to permit the reorganization of the Biology departments according to the plans that were developed several years ago. Steps should be undertaken now so that these plans can be implemented at the earliest possible moment.

Our Chemistry Department is alert to the desirability of its accreditation by the American Chemical Society. The curriculum in Chemistry has been the subject of critical review during the year and its revision effected to meet the latest recommendations of the American Chemical Society. A visit in June by Dr. W. Conard Fernelius, head of the Department of Chemistry at Syracuse University, provided us with helpful suggestions and gave assurance as to the high standard of instruction which is being offered here.

Our Department of Education and Psychology is sensitive to the need of developing better teachers for our secondary schools. This is being reflected in larger registrations in our curriculum in General Teacher Training and the larger numbers continuing for the ninth semester in supervised teaching in a public high school. A critical review of the curriculum has been made during the year and several improvements effected. Many men are now attracted to the curriculum. The department is also anxious to improve its facilities for visual instruction and has developed a plan for cooperative effort with other departments, both within and without the school. It should be given the greatest encouragement and provided with the financial assistance for the implementation of the plan.

Our Department of English has had repeated requests for

courses in Journalism. We believe that these requests will become increasingly numerous and persistent. We believe that the demand will come from two sources: (1) students in Journalism, and (2) students in our School of Business. It is our considered judgment that we should provide instruction for all courses in Journalism as listed in our college catalog, and by gradual expansion, provide sufficient courses to meet the needs for a minor in Journalism.

The work in dramatics will be substantially improved during the next academic year. The facilities in Quinn Auditorium were planned to serve the needs of a college theatre. Developments in stagecraft have outmoded the present switchboard. A new switchboard with an adequate dimming system should be installed. This can be done without impairing the use of the auditorium for other purposes.

Plans are being made for the offering of Latin during the coming academic year. We should give considered study to the need of extending student interest and work in the classics, not only through our Department of Languages, but also through our Departments of English, History and Political Science, and Philosophy if we are to establish the college in the arts to a degree comparable to that established in the sciences.

The creation of a new Department of Philosophy provides a great challenge and a boundless opportunity for the college to instruct the youth of our state in the principles of sound reasoning and to emphasize those values of lasting worth in the development of upright character and of responsible citizenship. It is planned to offer courses in Philosophy during the coming academic year. It is proposed to develop these courses to the general needs of all students in all schools, rather than to the needs of a small number who may wish to specialize in this area of knowledge.

The needs of our curriculum in Physical Education for Men cannot be fully and adequately met until we have better physical facilities to be provided by a new gymnasium. We are encouraged by the action of our present legislature in approving a bill for a new gymnasium-armory. We are confident that our alumni and the general public appreciate the needs of State

College and will make certain the success of referendum approval.

The offering of the Bachelor of Arts degree will bring added interest and enrollments to our already popular Liberal Studies program. Our faculty has been sensitive to requests of our students and to the demands which have been placed upon education by political and social changes. To meet persistent requests and self-evident demands, a major in Political Science and another in Sociology have been developed during the last year. Numerous registrations in both of these new majors are anticipated.

The offering of the Bachelor of Arts degree will bring feelings of greater opportunity and added responsibility to our faculty and should extend the educational horizons of all departments within the school. Departments have felt the challenge and are already moving to meet it. We quote from the recent annual report of one department of the school. It so well illustrates the many-sided functions and obligations of a faculty member and a department, that we commend it to the serious reflection of all our faculty and the considered action of all departments. We quote:

"Here is a reconsideration of the role of our department:

A. On the Campus

1. *Teaching*: The primary responsibility is to teach history and political science and always to seek to improve our teaching. We should inform and interest many of our students in international, national, state, and local affairs.
2. *Extra-curricular*: We should sponsor effective student organizations in international relations and in domestic political affairs and should cooperate with other organizations when they sponsor meetings devoted to these subjects. We should be directly responsible for the success of Phi Alpha Theta, our new honorary history fraternity. Finally, we should promote and cooperate with all those holding forums and meetings devoted to aspects of our special fields.
3. *Liberal education*: We should use our influence to help shape the strongest possible program of liberal arts to the end that the college will speedily establish itself in the arts. In these and other fields, we should set an example of high scholarship.

B. In the Community and State

1. *The Educational System*: This department should strive to provide the public, private, and church schools of the state with worthy leadership in our fields, being ready to assist them to bring up-to-date, vitalize, and improve their teaching of history and civics.
2. *Government*: The department should stand ready to cooperate with the state and local officials to achieve the reforms that are needed. The projects of a campus meeting of tax officials and a training institute for town clerks are illustrations of the possibilities.

3. *Public Information:* We should strive to further public discussion of current national and international problems. The plan for a United Nations Correspondent-Speakers Unit on the campus and the series of lectures at the Westerly Forum are examples of what can and should be done more frequently.
4. *Historical Societies:* The members of the Department should cooperate more closely with the historical societies of the state. A beginning has been made, but much more should be and can be done. Perhaps we first need to prove our worth as historians.

C. In the Profession

1. *Research and Publication:* Not one of us is proud or even satisfied with the research and publication of the past two years. All are resolved to individual efforts to prove our worth as productive historians and political scientists in the coming year."

This "reconsideration of the role" of one department points the positive direction of progress in which the School of Arts and Sciences is to move during the coming year. This illustrates the *modus operandi* by which the school proposes to serve the student, the college, and the society of our state, and by which it will constantly endeavor to build the enduring reputation and spread the effective influence of Rhode Island State College.

In conclusion, I should like to acknowledge the splendid cooperation which I have received from the staff of the school during the year, and the high quality of professional service that the staff has rendered. It has not been an easy year, nor in all respects a pleasant year. We have overcome some difficulties. We have adjusted ourselves to immovable difficulty. Our progress at times has been slow. Our direction has been forward. Our academic accomplishment has never been in doubt.

Respectfully submitted,

HAROLD W. BROWNING, *Dean*

The School of Business Administration

THE enrollment in the School of Business Administration has continued to increase, and the effects of this increase have permeated all activities and programs of the school.

CURRICULA CHANGES

During the past year an intensive study of all curricula was made by a school committee and as a result many suggestions of the committee are to be made effective in the academic year beginning July, 1948. The English requirement was increased in three curricula; namely, Accounting, Industrial Management, and Secretarial Studies. The course content of many subjects also has been changed, and an attempt has been made to secure better integration between courses. In all curricula there has been a reduction in the number of credits required for graduation. In some of the curricula the sequence of courses was changed in order to secure better distribution of the student study load and therefore better student performance.

RESEARCH ACTIVITIES

The research activities of members of the faculty are reflected in the publication listed on page 113.

Professor Palmer's book, "Introduction to Advertising," recently revised, is now in the fifth edition and has been adopted by colleges and high schools not only in the United States but also in foreign countries.

PROFESSIONAL ACTIVITIES

The members of the faculty have displayed a very strong desire to participate in the professional organizations of their respective fields. The school has encouraged attendance at the meetings of all such organizations—state, regional, and national.

PLANT AND EQUIPMENT

Equipment has been increased in the statistics laboratory, the office practice course, and typewriting classes. The school

continues to feel the need for office space for its faculty members. The crowded conditions do not permit profitable and effective consultation with the students.

STUDENT ORGANIZATIONS

The student chapter of the Society for the Advancement of Management, under the guidance of Professor Mabel E. Dickson, has held many meetings during the academic year, which have been addressed by prominent citizens of the state. The Marketing and Advertising Department, under the leadership of Prof. Herbert H. Palmer, organized a student advertising group. Dr. W. S. Briggs, head of the Department of Accounting and Business Law, held a meeting of the Accounting students, and although this meeting was largely social, it is confidently believed that it is a preliminary step for the development of a scholastic organization for accounting students. In the existing student organizations a certain level of scholastic attainment is prerequisite for membership, and it is believed the scholastic requirements will stimulate students to do more effective work in their fields of study.

GEORGE A. BALLENTINE, *Dean*

The Division of Nursing

A program in nursing was first offered at Rhode Island State College in the fall of 1945. For two years this program was under the able direction of Professor Olga P. Brucher, Dean of the School of Home Economics. Because of the indicated interest in such a program and the apparent need for its immediate development a Division of Nursing was established in the spring of 1947 and a full-time director was appointed in July, 1947.

THE FIRST CLASS

The curriculum plan set up tentatively by a joint committee representing the college and the Committee on Nursing Education appointed by the State Director of Health included a ten-weeks pre-clinical period during the summer between the Sophomore and the Junior years. Accordingly, ten students began this phase of the course at the Roger Williams General Hospital on June 16, 1947. Miss Wilma B. Chapin, Director of Education at the hospital was appointed as instructor for the group. Due to the splendid cooperation of both the hospital and nursing school administration this period proved to be both a worthwhile and happy experience for the students. All ten students completed the work satisfactorily and nine of them returned to continue their clinical experience on February 9, 1948. On March 12, 1948 they received their caps at appropriate and impressive capping exercises held jointly with the members of the pre-clinical class of the Roger Williams General Hospital School of Nursing.

ENROLLMENT

At the beginning of the fall semester, there were enrolled in the Division of Nursing a total of 40 students all working toward the Bachelor of Science degree. This group was divided as follows:

Juniors	10
Sophomores	10
Freshmen	9
Graduate Nurses	8
Special Students	3
	40

In the spring semester, after one or two transfers and admissions, the total was 39 making a net loss of only one.

The eight graduate nurses made an interesting group. All were veterans and were definitely interested in continuing their professional education in order to prepare themselves for some special field of nursing. All of these students maintained a high level of scholarship and of the five who received their degrees in June, two were elected to the scholastic honorary society.

In view of the necessity for limiting enrollment in all departments of the college and in consideration of the fact that an encouraging number of desirable applications for the basic program were being received it seemed wise to decide upon some policy in relation to the enrollment of graduate, registered nurses. It was decided that such enrollment would not be encouraged at this time but that careful consideration would continue to be given to any inquiry or application received from Rhode Island residents who might desire to take basic courses in the sciences, English, History, etc. The acceptance of such students will be based upon a review of the future plans of the applicant and the services available at the college for furthering such plans.

ADMISSION PROCEDURE

Since certain special qualifications are desirable for nursing and since it would not be fair to ask affiliating hospitals and other health agencies cooperating in the program to hold vacancies for students who might not be acceptable, it was felt that special care should be taken in the selection of nurse applicants. Consequently an admission procedure which is a composite of the procedures used both at the college and at the Roger Williams General Hospital School of Nursing has been adopted. It is hoped that by following this selection procedure carefully the number of students who transfer or drop out will be kept at a minimum.

A gratifying number of applications have been received for the fall of 1948 and the quota allotted for enrollment to the Division of Nursing has been selected without difficulty. The Director of Admissions feels that these applicants as a group have presented excellent credentials which compare favorably with those of other entering students.

CURRICULUM

At best any new program must be tentative and it has seemed wise to make some changes in order to allow for better

integration and sequence. Since part of the program is offered by the college and part in affiliation with hospitals and other health agencies, ways and means of establishing continuity of student interest and learning must be provided. Plans have been made to further this aim in the future by rearrangement of portions of both the academic and clinical experience.

The director deeply appreciates the cooperation received from various members of the faculty in making adaptations of their courses to fit the needs of potential nurses. Progress along this line has been most encouraging.

Two new nursing courses will be included in the future—Orientation to Nursing will be given in the second semester of the Freshman year and Senior Conference in Nursing during the fifth semester at the college.

PROFESSIONAL ACTIVITIES

The Director attended a regional conference in Washington, D. C. in October, 1947, to discuss a nation-wide study of Nursing Education being conducted by Dr. Esther Lucile Brown, Director of Studies in the Professions, of the Russell Sage Foundation. The report of the study will be available in the the fall and will hold significant implications for future developments in nursing education and will demand "intelligent, decisive action."

The Director also had the privilege of attending the annual meetings of the Association of Collegiate Schools of Nursing and the biennial convention of the national nursing organizations in June, 1948.

THE FUTURE

The interest noted during the past three years seems to indicate that Rhode Island State College has provided a desirable service to young high school women in establishing a curriculum in nursing. With the help and cooperation of the college administration, the faculty, the Advisory Committee, and with the assistance and guidance which we may receive from the National League of Nursing Education and the Association of Collegiate Schools of Nursing, we look forward to the development of a program which will be a credit to the college and to the nursing profession.

LOUISE WHITE, *Director*

The Division of Graduate Studies

Greater interest in graduate study has appeared in several departments on the campus. Candidates for the Master's Degree are now registered in eleven departments, a number exceeding that of last year by two. A graduate program has been inaugurated in the department of Animal Husbandry for the first time. Pre-registration for the fall of 1948 includes students in two departments not shown below. The total number of degree candidates has increased over last year, but the number can never be large without greater physical facilities and added personnel.

ENROLLMENT

A large number of inquiries concerning graduate studies were again received this year, but many were from unqualified students or from individuals desiring training in fields in which we are not prepared to offer graduate work. The enrollment of degree candidates for the year, by semester and by departments, follows:

	<i>First Semester</i>	<i>Second Semester</i>
Agricultural Chemistry	1	1
Agricultural Economics	2	2
Agronomy	1	2
Animal Husbandry	1	1
Bacteriology	1	1
Botany	3	2
Chemical Engineering	3	2
Chemistry	6	6
Economics	1	1
Education	1	1
Physics	4	4
Zoology	2	2

DEGREES CONFERRED

The Master of Science Degree was awarded in February to Leo A. Spano (Chemical Engineering), Francis J. Keneshea (Chemistry), and John P. Racine (Chemistry); in June to Otis B. Brown (Economics), Dexter S. Haven (Zoology), Daisy I. Kettelle (Agricultural Economics), Matthew A. Puchalski (Agronomy), and John Sanik Jr. (Chemistry).

ATTENDANCE AT MEETINGS

1. The Graduate Council meetings of the Association of Land-Grant Colleges and Universities were attended in Washington. Emphasis in these meetings was on the lack of preparation of graduate students for college teaching. About three-quarters of Ph.D. recipients become college teachers, but their preparation for this service is often lacking entirely or only haphazardly gained. Further emphasis is expected to be placed on this part of the individual's training and several institutions are in the process of formulating ways and means of imparting such training. Other features of this meeting were concerned with a wide range of administrative problems. A number of questionnaires originating from the discussions have been completed and returned to the senders by the Director.

2. Professor Pelton, Dean Ballentine, and the Director attended the sessions of the New England Conference on Graduate Education held this year at Brown University. The Director presented a paper summarizing the preliminary work of the Committee on Museums in New England

NEW PROGRAM

The department of Education is offering a new graduate program in Education in response to a demand for training that is composed of the subject matter and professional courses. This program differs in some respects from our more conventional major-minor organization and includes a thesis, for subject matter teachers, that deals with educational development in the subject matter field. If public school teachers are to be paid increasingly larger salaries, progressively better qualified teachers should be available for appointment. It is part of our responsibility to make our facilities available for improvement in the training of in-service teachers on the secondary level.

ADMINISTRATIVE PROBLEMS

Refinement of administrative procedures continues. Matters of standardization of bibliography in closely related fields, of editorial service, and the like, are gradually being worked out with mutual benefit to all concerned. Regional and national

organizations are increasingly aware of the lack of common standards for master's theses. Uniformity is not a proper goal, but it is gradually becoming obvious that variations should occur within acceptable limits. Our own graduate policies should be organized and expressed in preparation for the time when graduate programs in various institutions may be "accredited" in much the same fashion as are undergraduate programs at present.

The cooperation of all departments offering graduate work is needed to make substantial progress in academically sound graduate training. The Director wishes to thank the members of the Committee on Graduate Studies for their efforts.

VERNON I. CHEADLE, *Director*

Division of General College Extension

During the academic year 1947-48, the Division of General College Extension continued to serve the educational needs of the people in the State of Rhode Island through the following adult education programs:

- Evening Business Administration Courses
- Evening Insurance Courses
- Evening Real Estate Courses
- Evening Engineering Courses
- Evening Non-credit Technical Courses
- Evening Home Economics and Nursing Courses
- Institutes and Conferences
- Workers' Education Courses
- The Industrial Training Service
- The Full-time Providence Center

During the year, 2870 students were enrolled in all extension activities, and 362 students were enrolled in the full-time Providence Center

A complete statistical summary of enrollments for the year is given on pages 102-104.

EVENING BUSINESS ADMINISTRATION COURSES

A total of 511 students enrolled in the general programs of Business Administration including Transportation, Accounting, Industrial Management, Marketing, Personnel, Advertising, and Time Study. The enrollments in the Real Estate program, which last year were included with this section, have reached such a point that this course can now be considered as a separate unit and a more complete report given in a later section.

The students enrolled in Business Administration courses are either currently employed in Rhode Island industry in positions where the course content will help them to advance on their jobs, or feel that the knowledge obtained through evening study will enable them to enter one of the various branches of Rhode Island industry.

EVENING INSURANCE COURSES

Continuing the service of Rhode Island State College to the insurance profession of the state, 256 students enrolled

in Insurance Education courses during the year, bringing the total of students trained in insurance work since the beginning of the program in 1944 to 1271.

The Providence Washington Insurance Company, through its president Stephen W. Carey 3rd, again generously contributed \$125 to provide a \$25 prize to the best student in each insurance course—Automobile Insurance, Casualty Insurance, Fire Insurance I, General Principles of Insurance, and Inland Marine Insurance.

The first insurance certificate was awarded in the spring to Miss Margaret A. Garrahan for successfully completing an insurance subject plus the basic course in General Principles of Insurance.

EVENING REAL ESTATE COURSES

In the fall of 1946, the Division of General College Extension offered a course in Real Estate Fundamentals as there seemed to be a need for basic Real Estate information to help the many who were contemplating the purchase of a home. This course and others in the same field subsequently offered, has continued to be so successful that what is now the Real Estate program has reached a point where it should be given special notice. To date, 574 students have enrolled in the courses making up this program, 196 of them in the current year. Next fall for the first time a special flyer will be issued listing the courses which will make up this program, and an advisory committee of prominent Rhode Island Real Estate men have agreed to offer professional assistance in planning and carrying out this work.

EVENING ENGINEERING COURSES

Because the facilities for offering most of the campus engineering courses are not available to the Division of General College Extension, the 130 students enrolled in evening engineering courses took part in regular college mathematics courses. The need for laboratory facilities for the extension courses in engineering is apparent from the nature of the industry of Rhode Island, which requires considerable numbers of technically trained people if it is to maintain the

high level of production and employment necessary for the economic good of the state.

EVENING NON-CREDIT TECHNICAL COURSES

The laboratory problem noted above in connection with evening engineering courses also affects enrollment in the Technical Institute courses. During the year, we were able to make minimal arrangements for laboratory work in electronics and electricity by modifying the Motion and Time laboratory in Providence. This is an expedient, however, and does not provide the type of training in these important fields which Rhode Island residents deserve.

During the year, 355 students were enrolled in such technical courses as Electricity, Metallurgy, Tool Design, Wire and Cable Engineering, Construction, Electroplating, Air Conditioning.

Throughout the year, representatives of the division worked closely with the Education Committee of the American Society of Tool Designers in the development of a five-year program in "Tool Design". This new program will be offered for the first time in September, 1948.

Similarly, representatives of the division cooperated with the American Electroplaters' Society, Providence-Attleboro Branch, in meetings looking toward the establishment of an evening program for people interested in the field of Electroplating. This program, too, will start in September, 1948.

Both of the above programs will be seriously handicapped by the current lack of laboratory facilities for technical subjects and point again to the need for reasonable accommodations in the very near future.

The resignation of Mr. F. Weston Prior, Field Representative and Supervisor of Technical Programs, must be reported with regret. He served Rhode Island State College and Rhode Island business and industry faithfully in the development of services and programs of the Extension Division

EVENING HOME ECONOMICS COURSES

During the year the Division of General College Extension cooperated with the School of Home Economics and the

Division of Nursing in offering to 134 students courses in Educational Psychology, Principles of Public Health Nursing I and II, and Nutrition and Health. Nurses taking Educational Psychology through the Extension Division are able to apply the credits earned toward the Bachelor of Science degree in Nursing Education.

The two courses in Public Health Nursing were offered in cooperation with the Rhode Island State Organization for Public Health Nursing. The course in Nutrition and Health was offered in cooperation with the Rhode Island State Department of Health.

INDUSTRIAL TRAINING SERVICE

At the request of the Taft-Peirce Manufacturing Company, Woonsocket, Rhode Island, 19 of their employees took a course in the Principles of Die Making. Certificates of attendance were awarded to the students who successfully completed this course.

WORKERS' EDUCATION COURSE

It is to be reported with regret that Mr. Clifford L. Rosmond, who was appointed in February 1946 as the first Supervisor of the Workers' Education Program, resigned from this position at the beginning of the academic year. His services in developing the Workers' Education Program earned for him the appreciation of both Rhode Island State College and the several labor unions in Rhode Island.

During the year, 313 members of Rhode Island labor unions took advantage of such courses as Labor Legislation, Public Speaking, and Parliamentary Law, Labor History, and Principles of Stewardship. While the program suffered an enrollment loss due to the changeover in supervisors, a large program appears to be in prospect for the next academic year.

It should also be reported that the college cooperated with the Committee for the Extension of Labor Education in its attempt to secure congressional passage of a national labor extension bill. President Woodward was asked to testify on the bill before the Labor Sub-Committee of the House of Representatives, and at this time, full information on the Rhode Island State College Workers' Education Program was presented.

INSTITUTES AND CONFERENCES

Not all the educational needs of the people of the State of Rhode Island can be met through the provision of evening extension courses. To give further service to business, industry, and labor in this state, the Division of General College Extension offered a program of institutes and conferences, which included the following:

Textile Workers' Union of America (C.I.O.) Conference

This conference, held on the campus in Kingston from July 22 to August 2, 1947, attracted 66 members of the Textile Workers' Union of America from locals in Worcester, Massachusetts; Nashua and Manchester, New Hampshire; Plymouth New Bedford, and Fall River, Massachusetts; Danielson, Connecticut; as well as from locals in Rhode Island. A feature of the conference this year was the assignment of Professor William A. Itter, Professor Lee C. Wilson, and Mr. Merritt B. Jones of Rhode Island State College to participate with the regular institute teaching staff of the Textile Workers' Union. A schedule of classes including Making Your Union Work, Labor History, Collective Bargaining, Labor Legislation, and Public Speaking was held during the morning and early afternoon hours each day of the week. In addition, a program of evening lectures featuring prominent speakers was included as part of the conference.

Workers' Education Teacher Training Institute

In order to provide an opportunity for more common background in the field of Workers' Education on the part of the teachers who are conducting classes as part of the Workers' Education Program, an Institute was held on Wednesday, July 30, and Thursday, July 31, 1947. Prominent leaders of labor education in the country honored us by attending this program, and a total of twenty-seven conferees took part. The conference was purposely held to a minimum number of registrants in order to give as much opportunity as possible for discussion of the points raised by the speakers.

Participating in the conference along with the speakers from labor were Professor William A. Itter and Professor

Frank M. Pelton, who spoke on the Taft-Hartley Bill and Techniques in Adult Education, respectively.

The Third Annual Sales Congress in Life Insurance

In cooperation with the Rhode Island Life Underwriters' Association, a Sales Congress was held on the campus on October 9, 1947. This conference attracted 82 registrants and featured addresses by speakers prominent in the life insurance business.

The Third Annual Personnel Institute

On October 17, 1947, the Division of General College Extension offered a program designed for personnel and industrial relations administrators in the state. Seventy-five registrants had an opportunity to hear prominent speakers in the personnel field as well as to visit the Kingston campus.

Sixth Annual Institute on Federal Taxation

On the evenings of October 20, 22, 24, 28, and 30, 1947, the Division of General College Extension conducted the sixth of its Institutes on Federal Taxation to provide an opportunity for Rhode Island residents to hear specialists in the higher branches of federal taxation. Tax considerations constitute a problem more challenging to business and industry than ever before, and through the agency of this institute a valuable service is performed for those people in the state who are professionally concerned with federal taxation.

The Institute attracted 307 registrants to the five sessions.

THE PROVIDENCE CENTER

During the academic year 1947-48 regular freshman courses in the Engineering, Business Administration, Science-Biology, and Liberal Studies curricula were offered at the Providence Center. The courses, offered under the supervision of the deans of the various schools, differed from those offered on campus only in the following particulars: in the Science-Biology and Liberal Studies curricula the order of Zoology 1 and Zoology 2 was reversed; in the Liberal Studies curriculum Political Science 1 and 2 was substituted for History 5 and 6.

Since the studies at the center during this year were

patterned to approximate those of the freshmen on campus almost exactly, an ROTC program was inaugurated under the supervision in Providence of Captain Leslie F. Coates. The ROTC requirement was met by all non-veteran men students not excluded for physical or comparable reasons. Women students at the center were required to take Physical Education 41 and 42 in place of ROTC. Zoology 1 and 2 were also offered at the center for the first time. The school calendar at the center was the same as that on the campus.

The faculty which was recruited to teach at the Providence Center consisted of eighteen full-time instructors and assistant professors, and twelve part-time instructors. All teachers were under the academic supervision of the dean of the respective school on the campus, and the part-time instructors for the most part were men who divided their teaching assignment between the campus and the center. Every effort was made to keep the academic level of the center equal to that maintained on the parent campus.

Of the 362 students, 14 were women and 195 were veterans. The increase in enrollment over the previous year required the use of extra facilities at Oliver Hazard Perry Junior High School. A zoology laboratory and two additional classrooms were used as well as an office and storage space for ROTC complement.

During the course of the year, student activities were conducted under the direction of a Student Senate and its officers, elected in October, 1947.

During the school year, assemblies were held twice a month on Wednesday afternoons beginning at 1:30. The students were addressed by the various deans of Rhode Island State College and by directors and student leaders of the various campus activities.

VISUAL EDUCATION

During the year the Division acquired complete Bell and Howell sound projection equipment and immediately began a long anticipated program of adding visual education to its services.

In addition to showing a number of sound movies to extension classes in progress, the Division inaugurated the policy of setting up sound motion picture showings on various technical subjects and of inviting the general public or a specialized group to attend. Members of professional engineering societies in Rhode Island were invited to a film showing presented in cooperation with the Revere Copper and Brass, Inc., on "Copper and Its Alloys". Later in the year, "Highlights in Steel Making" was shown to a similar professional audience. This film was also shown to a meeting of the United Steelworkers of America, C.I.O. The Division cooperated with the Rhode Island Association of Insurance Agents in showing "Your Best Policy" at the spring convention of this Association.

It is planned that this service to the general public will be considerably expanded during the ensuing year.

PROFESSIONAL ACTIVITIES

The Director and Assistant Director attended a number of professional meetings during the year and staff members of the Extension Division addressed various groups on topics relating to adult education. The members of the staff also served as officers and committee members of several professional groups.

PUBLIC RELATIONS

Council of Education in Rhode Island

The most significant development of the year from the standpoint of adult education took place with the formation of the Council of Education in Rhode Island. The stated purposes of the council are:

- (1) To further the cause of undergraduate and adult education in the State.
- (2) To support progress in educational matters to the end that the gap between theoretical and practical education may be bridged through college extension courses and such courses made available to the citizens of this state.
- (3) To cooperate with business and industry so that their requirements in the field of education, through employe training, may be met with suitable courses.
- (4) To support the cause of expansion of Rhode Island schools and colleges so that they may provide added education in liberal arts, research, postgraduate work and such other lines as may be felt necessary.
- (5) To support the expansion of Rhode Island State College by aiding it to become a state university and to assist it to provide buildings, housing and equipment for a Providence Center for general extension courses.
- (6) To lend its support to and sponsor a higher standard in the teaching profession and in education in Rhode Island.

- (7) To survey and inventory adult-educational opportunities in the State of Rhode Island.

While there is no connection between the Council of Education in Rhode Island and the Division of General College Extension, the formation of a group of citizens dedicated to the same objectives cannot help but strengthen the adult educational services which are offered to the people of Rhode Island.

The Rhode Island Institute on Human Relations

During the latter part of the academic year, the Director was invited to become a member of the Steering Committee of the Rhode Island Institute on Human Relations. This organization proposes to investigate and develop constructive programs to the end that there may be a better understanding of racial and religious problems in this state. Representatives from the State Government, business, industry, labor, education, the church, social work, and the general public have been invited to participate.

COOPERATING ORGANIZATIONS

The following business, professional, and labor organizations cooperated in the development of extension courses, institutes, and conferences during the academic year 1947-48:

Accounting

The National Association of Cost Accountants, Providence Chapter
The Rhode Island Society of Certified Public Accountants

Business

Providence Real Estate Board
Rhode Island Builders Association

Engineering

Rhode Island Chapter, American Society of Tool Engineers
Rhode Island State Division of Industrial Inspection
American Electroplaters' Society—Providence-Attleboro Branch

Insurance

Rhode Island State Department of Insurance
Rhode Island Association of Insurance Agents
Rhode Island Life Underwriters' Association
Rhode Island Chapter, Chartered Life Underwriters' Association
Rhode Island Division of Workmen's Compensation

Labor

Rhode Island Department of Labor
Rhode Island State Branch, American Federation of Labor
Rhode Island Council, Congress of Industrial Organizations
Railroad Brotherhoods
Industrial Trades Union
International Association of Machinists

Management

Associated Industries of Rhode Island
Taft-Peirce Manufacturing Company

Nursing

Providence District Nursing Association
State Organization of Public Health Nursing
City Health Department—Providence, Pawtucket, Woonsocket

The Director wishes to express his appreciation to the administrative and secretarial Staff of the Division of General College Extension for their continuing cooperation in developing the programs and services which make up the offerings of the Division.

ENROLLMENT SUMMARY
FALL SEMESTER

GENERAL EVENING EXTENSION COURSES

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Advanced Transportation	15	0	15
Automobile Insurance	7	3	10
Business Law I.....	15	4	19
Casualty Insurance I.....	19	2	21
Life Insurance CLU "A".....	19	0	19
Life Insurance CLU "B".....	18	0	18
College Algebra	25	1	26
Differential Calculus	17	2	19
Educational Psychology	0	37	37
Electricity DC I.....	27	0	27
Elementary Accounting E 10 A.....	31	9	40
Elementary Accounting E 10 B.....	21	4	25
Elementary Accounting E 11 A.....	12	4	16
Elementary Electronics	19	0	19
English Composition	14	2	16
Fire Insurance I.....	14	7	21
General Chemistry I	11	2	13
General Metallurgy	10	1	11
General Principles of Insurance.....	23	1	24
Industrial Management	21	1	22
Inland Marine Insurance.....	11	0	11
Introduction to the Field of Air Conditioning.....	14	0	14
Marketing Principles	11	1	12
Nutrition and Health.....	0	13	13
Personnel Administration	18	1	19
Principles of Advertising.....	7	3	10
Principles of Tool Design (Providence).....	28	0	28
Principles of Tool Design (Pawtucket).....	15	0	15
Principles of Public Health Nursing II	0	29	29
Real Estate Financing.....	20	3	23
Real Estate Fundamentals.....	36	6	42
Salesmanship	34	1	35
Small Homes Construction.....	35	0	35
Time Study	14	1	15
Trigonometry	12	0	12
Wire & Cable Engineering.....	21	0	21

— 752

WORKERS EDUCATION PROGRAM

	<i>Union</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
Everyday Labor Problems.....	T.W.U.A., C.I.O.	41	23	64
Labor History	T.W.A., C.I.O.	41	23	64
Labor Legislation	Industrial Trades Union.....	9	1	10
Labor Legislation	R. I. Allied Bldg. Trades Council, A.F.L.	9	1	10
Labor Legislation	United Steelworkers of America, C.I.O.	33	0	33
Public Speaking and Parliamentary Law	Retail, Wholesale & Department Store Union, C.I.O.....	11	10	21
Time Study Principles.....	United Steelworkers of America, C.I.O.	33	0	33
			—	235

INSTITUTES AND CONFERENCES

Third Annual Sales Congress in Life Insurance.....	80	2	82
Third Annual Personnel Institute.....	69	6	75
Sixth Annual Institute on Federal Taxation.....	277	30	307
Workers' Education Teacher Training Institute.....	27	0	27
Textile Workers' Union of America Institute.....	42	24	66
			— 557

Total Enrollments, Fall Semester..... 1,544

SPRING SEMESTER

GENERAL EVENING EXTENSION COURSES

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Analytical Geometry	20	1	21
Casualty Insurance I.....	14	4	18
Casualty Insurance II.....	11	0	11
CLU "A", Life Insurance.....	11	0	11
CLU "A" Refresher, Life Insurance.....	15	0	15
CLU "B", Life Insurance.....	14	0	14
College Algebra	20	1	21
Construction Estimates	17	0	17
Educational Psychology	4	33	37
Electricity DC I.....	18	0	18
Electricity DC II.....	15	0	15
Electroplating	106	1	107
Elementary Accounting E 10 A.....	17	8	25
Elementary Accounting E 10 B	16	3	19
Elementary Accounting E 11 A.....	11	1	12
Elementary Accounting E 11 B.....	11	3	14
Elementary Electronics I.....	12	0	12
English Composition (Newport).....	0	15	15
English Composition (Providence)	21	2	23
Fire Insurance I.....	26	1	27
General Principles of Insurance	18	2	20
Heating & Ventilating.....	21	0	21
Industrial Management E20.....	19	1	20
Industrial Management E21.....	19	0	19
Industrial Relations	14	3	17
Industrial Safety	17	8	25
Principles of Public Health Nursing I.....	0	17	17

Integral Calculus	19	0	19
Introduction to Finance	13	0	13
Mental Hygiene—Psych. 7.....	0	14	14
Principles of Advertising.....	20	0	20
Public Speaking	12	3	15
Real Estate Fundamentals.....	36	4	40
Special Problems in Home Management.....	0	1	1
Small Homes Construction.....	22	4	26
Technical Drawing I.....	17	0	17
Time Study	16	0	16
Trigonometry	11	1	12
Urban Land Economics.....	27	3	30
Workmen's Compensation	15	1	16
		—	830

WORKERS EDUCATION PROGRAM

	<i>Union</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	
Principles of Stewardship..T.W.U.A., C.I.O.		11	21	32	
Principles of Stewardship..Industrial Trades Union.....		7	3	10	
Labor Legislation Retail, Wholesale & Dept. Store Union, C.I.O.		26	10	36	78
			—	—	

IN-SERVICE COURSE

Principles of Die-Making (Taft-Peirce Manufacturing Co.)..	19	0	19	19
			—	

VISUAL EDUCATION SERVICES

"Copper and Its Alloys"—General Public.....	44	4	48	
"Highlights in Steel Making"—General Public.....	92	12	104	
"Highlights in Steel Making"—United Steelworkers of America	94	0	94	
"Your Best Policy"—R. I. Insurance Agents Assoc.....	113	40	153	399
			—	

Total Enrollments, Spring Semester..... 1,326

	—First Semester—			—Second Semester—			
<i>Program</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Total</i>
General Evening Extension Courses..	614	138	752	695	135	830	1,582
Workers' Education	177	58	235	44	34	78	313
In-Service Course	0	0	0	19	0	19	19
Institutes and Conferences	495	62	557	0	0	0	557
Visual Education Services.....	0	0	0	343	56	399	399
Totals	1286	258	1544	1101	225	1326	2,870

PROVIDENCE CENTER

	—Men—		<i>Women</i>	<i>Total</i>
	<i>Vets</i>	<i>Non-Vets</i>		
First Semester	195	153	14	362
Second Semester	163	140	8	311

Respectfully submitted,

J. B. M. ARTHUR, *Director*

Staff Changes

Appointments

- Dr. Richard A. Schermerhorn, Associate Professor of Sociology, July 1, 1947. B.A., Dakota Wesleyan College, 1924; M.A., Northwestern University, 1927; Ph.D., Yale University, 1931.
- Miss Elizabeth R. Norcross, Instructor in Child Development and Family Relations, and Director of the Nursery School, July 1, 1947. B.A., Wheaton College, 1937; M.Ed., Boston University Nursery Training School, 1947.
- Miss Helen H. Johnson, Instructor in Child Development and Family Relations, July 1, 1947. B.A., John B. Stetson University, 1939; M.A., Teachers College, Columbia University, 1940.
- Mr. John L. Hummer, Instructor in Electrical Engineering, July 1, 1947. B.S., Massachusetts Institute of Technology, 1943.
- Dr. John F. Quinn, Dean of Men, July 1, 1947. B.S., Massachusetts State College, 1928; M.A., Columbia University, 1933; Ph.D., New York University, 1942.
- Mr. Donald R. McMorrow, Instructor in Physics, July 1, 1947. B.S., Tufts College, 1945.
- Mr. Leslie R. Stone, Jr., Instructor in Physics, July 1, 1947. B.S., Rhode Island State College, 1940.
- Admiral Scott Umsted, Instructor in Physics, July 1, 1947. B.S., U. S. Naval Academy, 1915.
- Miss Louise White, Associate Professor of Nursing and Director of the Division of Nursing, July 1, 1947. B.S., Teachers College, Columbia University, 1927; M.A., *ibid.*, 1933.
- Miss Marion L. Fry, Instructor in Textiles and Clothing, July 1, 1947. B.S., Rhode Island State College, 1933; M.A., Teachers College, Columbia University, 1947.
- Miss Lillian D. Blumberg, Instructor in English, July 1, 1947. B.A., New York University, 1941; M.A., *ibid.*, 1942; Ph.D., Yale University, 1946.
- Miss Barbara O'Brien, Instructor in Physical Education for Women, July 1, 1947. B.S., Bouve-Boston School of Physical Education, 1947.
- Mr. Tamlin K. Lindsay, Instructor in Industrial Management, July 1, 1947. B.S., Southern Methodist University, 1939; M.S., Columbia University, 1947.
- Dr. Douglas L. Kraus, Assistant Professor of Chemistry, July 1, 1947. B.S., Brown University, 1934; Ph.D., University of California, 1937.
- Mr. Jacob Katz, Instructor in Chemistry, July 1, 1947. B.S., Rhode Island State College, 1933; M.S., *ibid.*, 1935.
- Miss Arline Pinkham, Associate Professor of Home Economics, July 1, 1947. B.S., Farmington State Teachers College, 1930; M.S., Cornell University, 1941.
- Mr. Arthur G. Bailey, Instructor in Physics, July 1, 1947. B.S., Mount Allison College, 1944; M.S., Dalhousie College, 1946.
- Miss Mary-Jane Bacon, Instructor in Foods and Nutrition, July 1, 1947. B.S., University of New Hampshire, 1943; M.S., Teachers College, Columbia University, 1947.
- Mrs. Madeleine D. Parker, Instructor in Home Economics, July 1, 1947. B.S., Syracuse University, 1941; M.A., Teachers College, Columbia University, 1947.
- Dr. Richard D. Wood, Instructor in Botany, July 1, 1947. B.A. and B.S., Ohio State University, 1940; M.S., Northwestern University, 1942; Ph.D., *ibid.*, 1947.
- Mr. Thomas F. Moschetto, Instructor in Chemical Engineering, July 1, 1947. B.Ch.Eng., Rensselaer Polytechnic Institute, 1942; M.S., University of Cincinnati, 1947.
- Mr. Mark H. Gordon, Instructor in Landscape Gardening in the School of Agriculture and Assistant in Agronomy in the Agricultural Experiment Station, July 1, 1947. B.S., Massachusetts State College, 1940; B.L.A., University of Massachusetts, 1947.
- Mr. James E. Casey, Assistant Professor of Education and Psychology, July 1, 1947. B.A., Boston College, 1931; M.A., *ibid.*, 1941; M.Ed., Harvard Graduate School of Education, 1947.
- Mr. Harold Sternbach, Instructor in Statistics and Industrial Management, July 1, 1947. B.S., Rhode Island State College, 1941; M.S., Columbia University, 1947.

- Dr. Arthur L. Quirk, Instructor in Mathematics, July 1, 1947. B.S., Providence College, 1930; M.S., Catholic University, 1932; Ph.D., *ibid.*, 1934.
- Mr. Francis P. Gould, Instructor in Civil Engineering, July 1, 1947. B.C.E., Rensselaer Polytechnic Institute, 1943.
- Mr. Eli Schwartz, Instructor in Economics, July 1, 1947. B.S., University of Denver; M.A., University of Connecticut, 1947.
- Mr. John Buchanan, Instructor in Dairy Manufactures, July 1, 1947. B.S., University of Vermont, 1932.
- Mr. Spencer H. Davis, Instructor in English, July 1, 1947. B.S., Ohio State University, 1944; M.A., Teachers College, Columbia University, 1945.
- Dr. James M. Darlington, Assistant Professor of Zoology, July 1, 1947. B.S., Franklin and Marshall College, 1930; M.A., Brown University, 1933; Ph.D., *ibid.*, 1935.
- Mr. James J. Casey, Instructor in Chemistry, July 1, 1947. B.S., Holy Cross College, 1939; M.S., *ibid.*, 1940.
- Miss Nancy A. Potter, Instructor in English, July 1, 1947. B.A., Tufts College, 1946; M.A., *ibid.*, 1947.
- Mr. George M. Tinker, Part-time Instructor in Music, July 1, 1947. B.A., Brown University, 1929.
- Mr. Alfred C. Bachelder, Instructor in Mechanical Drawing, July 1, 1947. B.S., Rhode Island School of Design, 1943.
- Mr. Ralph J. Connor, Instructor in Accounting, July 1, 1947. B.S., Bryant Business School, 1940.
- Mr. Harry E. Gould, Instructor in Mathematics, July 1, 1947. B.A., Brooklyn College, 1944.
- Mr. William H. Wiley, Associate Professor of Poultry Husbandry, Associate Research Professor of Poultry Husbandry, July 16, 1947. B.S., Agricultural and Mechanical College of Texas, 1936; M.S., *ibid.*, 1937.
- Miss Mildred A. Buell, Associate 4-H Club Agent for Northern Rhode Island District, July 22, 1947. B.S., University of Connecticut, 1947.
- Miss Phyllis Joyce, Assistant Librarian, August 1, 1947. B.S., Simmons College School of Library Science, 1947.
- Miss Nadine Baer, Assistant Librarian, August 1, 1947. B.S., Simmons College School of Library Science, 1947.
- Mr. Edward R. Winiarczyk, Junior Assistant Chemist in Agricultural Chemistry, August 1, 1947. B.S., Tufts College, 1947.
- Mr. John W. Atwood, Assistant Dairy Husbandman, August 15, 1947. B.S., University of Connecticut, 1941.
- Mr. Herbert G. Allbritten, Assistant and Extension Agronomist, August 15, 1947. B.S., Murray State College, 1931; M.S., University of Kentucky, 1941.
- Mr. Thomas Alexander Jamieson, Junior Assistant in Chemistry, September 1, 1947. B.S., Rhode Island State College, 1942.
- Mr. Leonard W. Weis, Instructor in Geography and Geology, September 1, 1947. B.S., Harvard University, 1943.
- Mr. Frank Ohler Leighton, Graduate Assistant in Physics, September 1, 1947. B.S., U. S. Naval Academy, 1941.
- Mr. Frank J. Vieira, Junior Assistant in Agricultural Chemistry, September 1, 1947. B.S., Rhode Island State College, 1947.
- Mr. John M. North, Graduate Assistant in Chemistry, September 1, 1947. B.S., Rhode Island State College, 1947.
- Mr. Donald R. Roberts, Graduate Assistant in Chemistry, September 1, 1947. B.S., Rhode Island State College, 1947.
- Mr. John G. Erhardt, Jr., Graduate Assistant in Chemistry, September 1, 1947. B.S., Rhode Island State College, 1942.
- Miss Hope E. Byrne, Junior Assistant in Poultry Husbandry, September 1, 1947. B.S., Rhode Island State College, 1947.
- Mr. Francis A. Fitzgerald, Graduate Assistant in Chemical Engineering, September 1, 1947.
- Mr. Richard S. Hill, Graduate Assistant in Physics, September 1, 1947. B.A., Harvard University, 1947.

Mr. Albert H. Soar, Temporary Assistant Coach of Football, September 3, 1947.

Miss Judith Flandreau, Supervisor in the Dining Service, September 10, 1947. B.S., University of North Carolina, 1944; M.A., Teachers College, Columbia University, 1946.

Mrs. Bernice Russell, Assistant to the Dean of Women and Director of Davis Hall, September 13, 1947.

Mr. Arthur F. Hanley, Special Instructor in Marketing and Advertising, September 15, 1947. B.S., Rhode Island State College, 1936.

Mr. Stanley Watson Arnold, Part-time Instructor in Accounting, September 15, 1947. B.S., Rhode Island State College, 1948.

Mr. Alfred Louis Gadrow, Part-time Instructor in Accounting, September 15, 1947. B.S., Rhode Island State College, 1941.

Mrs. Louise A. Greene, Part-time Instructor in Physical Education, September 18, 1947. B.S., Rhode Island State College, 1944.

Mr. Douglas Whitten Allan, Extension Lecturer in English, effective September 18, 1947. B.A., Brown University, 1938; M.A., University of California, 1947.

Miss Marjorie R. Gerlach, Secretary to the President, September 22, 1947.

Mrs. Susan T. Broadfoot, Home Demonstration Agent in the Northern Rhode Island District, October 1, 1947. Diploma, Skidmore College, 1921.

Miss Grace H. Smith, Assistant Home Economist, October 1, 1947. B.S., Cornell University, 1921.

Miss Mary-Elizabeth Davies, Junior Assistant in Plant Pathology and Entomology, October 6, 1947. B.S., Rhode Island State College, 1947.

Mr. Sam G. Zack, Extension Lecturer in Labor Legislation, October 6, 1947. LL.B., Suffolk University, 1925.

Mr. Gordon F. Todd, Extension Lecturer in Electrical Engineering, October 7, 1947. B.A., Brown University, 1937.

Mr. Chester R. Martin, Extension Lecturer in Business Administration, October 9, 1947. B.S., Bryant College.

Mr. Albert J. Hoban, Extension Lecturer in Workers Education, October 14, 1947. B.A., Providence College, 1932; LL.B., Harvard Law School, 1936.

Mr. Milton E. Nelson, Extension Lecturer in Business Administration, October 14, 1947.

Mr. Delbert C. Krahne, Extension Lecturer in Mechanical Engineering, October 15, 1947.

Mr. Curtis L. Collison, Extension Lecturer in Business Administration, October 21, 1947. B.S., Rhode Island State College, 1933.

Mr. Stuart S. Reardon, Extension Lecturer in Physical Education, October 27, 1947. B.S., Rhode Island State College, 1936; M.Ed., Boston University, 1941.

Mr. Arthur A. Collard, Professor of Civil Engineering and Head of the Department of Civil Engineering, November 1, 1947. B.S., Rutgers University, 1926.

Mr. Edward A. White, Extension Lecturer in Business Administration, November 14, 1947. B.S., University of Massachusetts, 1919.

Mr. Ralph Sprague Shaw, Administrative Assistant in the Agricultural Extension Service, November 16, 1947. B.S., Rhode Island State College, 1925.

Miss Catherine R. Sullivan, Extension Lecturer in Nursing, November 26, 1947. Rhode Island Hospital Training School for Nurses, 1924; B.S., Columbia University, 1942.

Mr. Daniel J. Higgins, Extension Lecturer in Business Administration, December 11, 1947. Ph.B., Providence College, 1933; LL.B., Yale School of Law, 1936.

Mr. Kenneth L. Temple, Instructor in Bacteriology, February 1, 1948. B.A., Middlebury College, 1940; M.S., University of Wisconsin, 1942.

Miss Beverly May Downing, Instructor in Home Economics, February 1, 1948. B.S., Rhode Island State College, 1944; M.A., Teachers College, Columbia University, 1948.

Miss Marilyn White Upham, Junior Assistant in Child Development and Family Relations, February 1, 1948. B.S., Rhode Island State College, 1948.

Mr. Francis Bartholomew Muller, Graduate Assistant in Agronomy, February 1, 1948. B.S., Rhode Island State College, 1948.

Miss Hope Buxton Brown, Instructor in Child Development and Family Relations, February 1, 1948. B.A., Pembroke, 1943; M.Ed., Boston University, 1945; Nursery Training School of Boston, 1945.

- Mr. Lester James King, Graduate Assistant in Chemical Engineering, February 1, 1948. B.S., Rhode Island State College, 1948.
- Miss Constance L. Brine, Instructor in Foods and Nutrition, February 1, 1948. B.S., Framingham Teachers College, 1941; M. in P.H., Harvard School of Public Health, 1948.
- Mr. John Philip Racine, Assistant in Chemistry, February 1, 1948. B.S., Providence College, 1941; M.S., Rhode Island State College, 1948.
- Mr. Howard Ross Shackleton, Graduate Assistant in Physics, February 1, 1948. B.S., Rhode Island State College, 1948.
- Mr. Francis Casimir Pysz, Instructor in Civil Engineering, February 1, 1948. B.S., Rhode Island State College, 1948.
- Dr. Antonios P. Savides, Visiting Professor in Education and Psychology, February 9, 1948. Ph.D., Harvard University, 1917.
- Mr. Martin Bernard Horan, Visiting Lecturer in Education, February 9, 1948. B.A., St. Johns, Brooklyn, 1925; M.A., *ibid.*, 1932.
- Mr. Frederick G. Dunn, Supervisor in Workers Education, Division of General College Extension, February 12, 1948. Ph.B., Providence College, 1930.
- Mr. Theodore A. Suddard, County 4-H Club Agent for the Eastern Rhode Island District, February 16, 1948. B.S., Rhode Island State College, 1948.
- Mr. Frederick G. Busch, Extension Lecturer in Business Administration, February 19, 1948. B.S., Boston University, 1938.
- Mr. John P. Clarner, Extension Lecturer in Engineering, February 19, 1948. B.S., Rhode Island State College, 1931; M.S., *ibid.*, 1932.
- Miss Catherine M. McDermott, Extension Lecturer in Nursing, February 24, 1948. B.S., Teachers College, Columbia University, 1931; M.S., *ibid.*, 1935.
- Mr. Leonard A. Chesworth, Extension Lecturer in Engineering, February 26, 1948. B.S., Iowa State College, 1936.
- Mr. George E. Andrews, Jr., Extension Lecturer in Engineering, March 1, 1948. B.S., Rhode Island State College, 1932.
- Mr. John H. Maguire, Jr., Extension Lecturer in Real Estate, April 26, 1948.
- Mr. Stuart G. Roberts, Field Representative of the Division of General College Extension, May 1, 1948. B.E., University of Southern California, 1943.
- Dr. S. J. P. Turco, College Physician, May 1, 1948. B.S., Providence College, 1930; M.D., Georgetown Medical School, 1934.
- Mr. Fred W. Kunath, Extension Lecturer in Mechanical Engineering, June 1, 1948.
- Mr. Morton H. Gollis, Junior Assistant in Plant Pathology-Entomology and Agricultural Chemistry, June 10, 1948.
- Miss Hope Frances Parker, Instructor in Nursing, June 15, 1948. B.S., Boston University, 1943.
- Mr. Joseph G. Barrat, Jr., Junior Assistant in Plant Pathology-Entomology, June 16, 1948. B.S., Rhode Island State College, 1948.

Resignations and Appointments Terminated

- Miss Leah Stetson, Assistant Librarian, July 7, 1947.
- Miss Germaine Seelye, Associate 4-H Club Agent in the Northern Rhode Island District, July 21, 1947.
- Mr. Aram Henesian, Graduate Assistant in Chemical Engineering, July 31, 1947.
- Mrs. Leonora Topazio, Junior Assistant in Agricultural Chemistry, July 31, 1947.
- Miss Lois W. Reynolds, Assistant Librarian, August 31, 1947.
- Mr. Frank W. Stubbs, Jr., Professor of Civil Engineering, August 31, 1947.
- Miss Clara Dodson, Assistant Professor of Art, September 15, 1947.
- Mr. Joseph L. Scott, Assistant to the Dean of Administration, September 15, 1947.
- Miss E. Anahid Thomasian, Junior Assistant in Plant Pathology, September 15, 1947.
- Miss Doris V. Farnsworth, Secretary to the President, September 30, 1947.
- Mr. Frank Vincent Bugielski, Graduate Assistant in Plant Pathology and Entomology, September 30, 1947.

Mr. Clifford L. Rosmond, Field Representative and Supervisor of Workers Education in General College Extension, effective October 6, 1947.

Mr. John H. Wheeler, County Club Agent in the Eastern Rhode Island District, October 23, 1947.

Mrs. Elisabeth R. Norcross, Director of the Nursery School and Instructor in Child Development and Family Relations, January 1, 1948.

Mr. Arthur F. Hanley, Instructor in Marketing and Advertising, January 15, 1948.

Dr. Ralph K. Carleton, Assistant Professor of Chemistry, January 31, 1948.

Mr. Frank Ohler Leighton, Graduate Assistant in Physics, January 31, 1948.

Mr. Leo A. Spano, Graduate Assistant in Chemical Engineering, January 31, 1948.

Dr. Leland C. Grumbles, Assistant Research Professor of Poultry Husbandry, February 29, 1948.

Mr. John Philip Racine, Assistant in Chemistry, March 15, 1948.

Mr. Robert C. Pitman, Junior Assistant Agricultural Economist, April 15, 1948.

Mr. F. Weston Prior, Jr., Field Representative for the Division of General College Extension, April 30, 1948.

Mr. Arthur C. Bailey, Instructor in Physics, June 30, 1948.

Mr. Saul B. Barber, Instructor in Zoology, June 30, 1948.

Mr. Robert V. Bardsley, Instructor in Electrical Engineering, June 30, 1948.

Mr. William C. Birtwell, Assistant Professor of Electrical Engineering, June 30, 1948.

Miss Hope Buxton Brown, Instructor in Child Development and Family Relations, June 30, 1948.

Mr. Charles Carlson, Instructor in Industrial Management, June 30, 1948.

Dr. Sylvan I. Cohen, Assistant Research Professor of Plant Pathology, June 30, 1948.

Mr. Ralph J. Connor, Instructor in Accounting, June 30, 1948.

Dr. James M. Darlington, Assistant Professor of Zoology, June 30, 1948.

Mr. Thomas C. Fuller, Instructor in Botany, June 30, 1948.

Mr. Arthur Wilson Grove, Instructor in Electrical Engineering, June 30, 1948.

Miss Dagmar C. Gustafson, Associate Professor of Clothing and Textiles, June 30, 1948.

Mr. Jacob Katz, Instructor in Chemistry, June 30, 1948.

Mr. Milo Kimball, Associate Professor of Economics and Finance, June 30, 1948.

Mr. Clarence Joseph Lamb, Assistant Professor of History and Political Science, June 30, 1948.

Mr. Tamblin K. Lindsay, Instructor in Marketing and Advertising, June 30, 1948.

Mrs. Elinor W. Maguire, Assistant Professor of Home Economics, June 30, 1948.

Dr. Paul McCorkle, Associate Professor of Physics, June 30, 1948.

Miss Lillian Nardone, Instructor in Physical Education for Women, June 30, 1948.

Dr. Mary Alice Reilly, Associate Professor of English, June 30, 1948.

Mr. John J. Sanik, Instructor in Chemistry, June 30, 1948.

Dr. Richard A. Schermerhorn, Associate Professor of Sociology, June 30, 1948.

Mr. Eli Schwartz, Instructor in Economics, June 30, 1948.

Mr. Kenneth L. Temple, Instructor in Bacteriology, June 30, 1948.

Mr. Stanley W. Arnold, Special Instructor in Accounting and Law, June 30, 1948.

Mr. Martin Horan, Visiting Lecturer in Education, June 30, 1948.

Mrs. Ann Keegan, Junior Assistant in Home Economics Research, June 30, 1948.

Dr. Antonios P. Savides, Visiting Professor in Education and Psychology, June 30, 1948.

Mrs. Jean H. Swann, Junior Assistant in Plant Pathology, June 30, 1948.

Miss Ida Miele, Graduate Assistant in Botany, June 30, 1948.

Mr. Matthew A. Puchalski, Graduate Assistant in Agronomy, June 30, 1948.

Mr. Donald R. Roberts, Graduate Assistant in Chemistry, June 30, 1948.

Retirement

Dr. Henry B. Potter, College Physician, April 30, 1948.

Leaves of Absence

Mrs. Jean Swann, Assistant in Plant Pathology and Entomology, July 1, 1947.

Mr. Milton Salomon, Assistant Agricultural Chemist, September 16, 1947.

Mrs. Elinor Maguire, Assistant Professor of Home Economics, February 1, 1948.

Promotions and Other Changes of Title

- Dr. Sylvan I. Cohen, from Assistant in Plant Pathology and Entomology to Assistant Research Professor of Plant Pathology and Entomology, July 1, 1947.
- Dr. Desmond D. Dolan, from Assistant in Horticulture to Assistant Research Professor of Horticulture, July 1, 1947.
- Dr. Theodore W. Kerr, Jr., from Assistant Research Professor of Plant Pathology and Entomology to Associate Research Professor of Plant Pathology and Entomology, July 1, 1947.
- Dr. Irene H. Stuckey, from Assistant Research Professor of Plant Pathology to Associate Research Professor of Plant Pathology, July 1, 1947.
- Mr. George A. Ballentine, from Acting Dean of the School of Business Administration and Associate Professor of Economics to Dean of the School of Business Administration and Professor of Economics, July 1, 1947.
- Dr. Winfield S. Briggs, from Associate Professor of Accounting to Professor of Accounting, July 1, 1947.
- Miss Mabel E. Dickson, from Associate Professor of Business Administration to Professor of Business Administration, July 1, 1947.
- Mr. Robert Rockafellow, from Associate Professor of Economics to Professor of Economics, July 1, 1947.
- Dr. T. Stephen Crawford, from Acting Dean of the School of Engineering and Professor of Chemical Engineering to Dean of the School of Engineering and Professor of Chemical Engineering, July 1, 1947.
- Mr. William C. Birtwell, from Instructor in Electrical Engineering to Assistant Professor of Electrical Engineering, July 1, 1947.
- Mr. Henry Campbell, from Instructor in Civil Engineering to Assistant Professor of Civil Engineering, July 1, 1947.
- Mr. J. R. K. Stauffer, from Assistant Professor of Mathematics to Associate Professor of Mathematics, July 1, 1947.
- Mr. Raymond H. Stockard, from Instructor in Mechanical Engineering to Assistant Professor of Mechanical Engineering, July 1, 1947.
- Mr. Ferdinand Votta, Jr., from Instructor in Chemical Engineering to Assistant Professor of Chemical Engineering, July 1, 1947.
- Miss Mary H. Cummings, from Instructor in Mathematics to Assistant Professor of Mathematics, July 1, 1947.
- Dr. Dura-Louise Cockrell, from Assistant Professor of Child Development and Guidance to Associate Professor of Child Development and Family Relations, July 1, 1947.
- Miss Dagmar Gustafson, from Assistant Professor of Home Economics to Associate Professor of Textiles and Clothing, July 1, 1947.
- Miss Lillian B. Hudon, from Instructor in Home Economics to Assistant Professor of Home Economics, July 1, 1947.
- Miss Emma Kimball, from Instructor in Home Economics to Assistant Professor of Home Economics, July 1, 1947.
- Mrs. Elinor W. Maguire, from Instructor in Home Economics to Assistant Professor of Foods and Nutrition, July 1, 1947.
- Mr. Paul F. Cieurzo, from Assistant Professor of Physical Education for Men to Associate Professor of Physical Education for Men, July 1, 1947.
- Dr. William A. Itter, from Assistant Professor of History and Political Science to Associate Professor of History and Political Science, July 1, 1947.
- Dr. William D. Metz, from Instructor in History and Political Science to Assistant Professor of History and Political Science, July 1, 1947.
- Mr. Albert B. Nelson (on leave), from Instructor in Chemistry to Assistant Professor of Chemistry.
- Dr. Mary Alice Reilly, from Assistant Professor of English to Associate Professor of English, July 1, 1947.
- Mr. Robert P. Sorlien, from Instructor in English to Assistant Professor of English, July 1, 1947.
- Dr. Lee C. Wilson, from Assistant Professor of English to Associate Professor of English, July 1, 1947.

- Dr. Eugene C. Winslow, from Instructor in Chemistry to Assistant Professor of Chemistry, July 1, 1947.
- Mr. J. B. McKee Arthur, Jr., from Acting Director and Assistant Professor of General College Extension to Director and Associate Professor of General College Extension, July 1, 1947.
- Miss Shirley Elliott, from Assistant Librarian to Associate Librarian, July 1, 1947.
- Mr. David G. Geffner, from Visiting Instructor in Business Law to Special Instructor in Business Law, July 1, 1947.
- Mr. Robert A. DeWolf, from Associate Professor of Zoology and Acting Director of the Narragansett Marine Laboratory to Associate Professor of Zoology, July 1, 1947.
- Mr. Malcolm M. Williams, from Instructor in Physical Education for Men to Special Instructor in Physical Education for Men, July 1, 1947.
- Miss L. Edith Andrews, from Professor of Home Economics to Professor of Foods and Nutrition, July 1, 1947.
- Miss Ruth E. Tucker, from Associate Professor of Home Economics to Associate Professor of Foods and Nutrition, July 1, 1947.
- Miss Grace S. Burwash, from Associate Professor of Home Economics to Associate Professor of Textiles and Clothing, July 1, 1947.
- Mrs. Elizabeth Christopher, from Instructor in Child Development and Guidance to Instructor in Child Development and Family Relations, July 1, 1947.
- Mrs. Adelaide Briggs, from Part-time Instructor in Home Economics and Physical Education to Special Instructor in Home Economics and Physical Education, July 1, 1947.
- Mr. Robert V. Bardsley, from Instructor in Mechanical Engineering to Instructor in Electrical Engineering, July 1, 1947.
- Mr. Robinson P. Gough, from Instructor in Shop Work to Special Instructor in Shop Work, July 1, 1947.
- Dr. Jesse A. DeFrance, Associate Research Professor of Agronomy, designated also Associate Professor of Landscape Gardening, July 1, 1947.
- Mrs. Leonora Topazio, from Assistant in Home Economics Research to Junior Assistant in Agricultural Chemistry, July 1, 1947.
- Miss Daisy I. Kettelle, from Assistant Agricultural Economist to Junior Assistant in Agricultural Economics, July 1, 1947.
- Mr. F. L. Van Hooser, from Assistant in Animal and Dairy Husbandry to Junior Assistant in Animal and Dairy Husbandry, July 1, 1947.
- Mrs. Jean Swann, from Assistant in Plant Pathology and Entomology to Junior Assistant in Plant Pathology and Entomology, July 1, 1947.
- Miss Leona A. McElroy, from Assistant in Horticulture to Junior Assistant in Horticulture, July 1, 1947.
- Mr. Homer O. Stuart, from Director of Agricultural and Home Economics Extension and Professor of Poultry Husbandry to Director and Professor of Agricultural and Home Economics Extension, July 1, 1947.
- Miss Thelma Ballirano, from Assistant Nursery School Teacher to Head Nursery School Teacher, February 1, 1948.

List of Publications

AGRICULTURAL EXPERIMENT STATION:

- Christopher, E. P., Pieniazek, S. A., Shutak, V. G., and McElroy, L. A., Transpiration of Apples in Cold Storage. *Proc. Amer. Soc. Hort. Sci.*, Vol. 31, pp. 114-118, 1948.
- DeFrance, J. A., Effect of Certain Chemicals in the Killing of Putting-Green Turf and Their Influence on Various Methods of Reseeding. *Greenkeepers' Reporter*, Vol. 16, No. 2, 1948.
- Delaplane, J. P., Some Recent Observations of Lesions in Chick Embryos Induced by the Virus of a Chronic Respiratory Disease of Chickens. *Cornell Veterinarian*, Vol. 38, No. 2, pp. 192-194, April 1948.
- Delaplane, J. C., Technique for the Isolation of Infectious Bronchitis or Newcastle Virus Including Observations on the Use of Streptomycin in Overcoming Bacterial Contaminants. *Misc. Pub.* No. 33, 4 p., 1947.
- Delaplane, J. P., and Higgins, T. C., Sulfaquinoxaline in the Prevention and Control of Chronic Fowl Cholera. *Cornell Vet.*, Vol. 38, No. 3, pp. 267-272.
- Dolan, D. D., and Christopher, E. P., Interrelation of Variety, Spacing and Rate of Fertilization on the Early and Total Yield of Sweet Corn. (In manuscript.) 1948.
- Dolan, D. D., and Christopher, E. P., Effect of Modified Fertilizer Ratio on Yield of Vegetables. (In manuscript.) 1948.
- Dolan, D. D., and Christopher, E. P., A Study of the Effect of Soil and Climate on the Growth, Time of Maturity and Yield of Vegetables Grown at Three Rhode Island Locations. (In manuscript.) 1948.
- Gilbert R. W., and Winiarczyk, E. R., Inspection of Feeds and Fertilizers, 1948.
- Grumbles, L. C., and Delaplane, J. P., Sulfaquinoxaline in the Prevention of *Eimeria necatrix* Infection in Chickens. *Proc. Fifty-First Annual Meeting U. S. Livestock and Sanitary Assoc.*, December 1947, pp. 285-289.
- Grumbles, L. C., Delaplane, J. P., and Higgins, T. C., Immunity Studies on *Eimeria tenella* Infection in Chickens in Relation to Sulfaquinoxaline Therapy. *Poul. Sci.*, Vol. 27, No. 2, pp. 169-171, March 1948.
- Grumbles, L. C., Delaplane, J. P., and Higgins, T. C., Sulfaquinoxaline in the Control of *Eimeria tenella* and *E. necatrix* in Chickens on a Commercial Broiler Farm. *Science*, Vol. 107, No. 2773, pp. 196-197, February 20, 1948.
- Grumbles, L. C., and Delaplane, J. P., Relative Activity of Sulfamethazine and Sulfaquinoxaline against *Eimeria tenella* Infection in Poultry. *Amer. Jour. Vet. Res.*, Vol. 9, No. 32, pp. 306-309, 1948.
- Grumbles, L. C., Delaplane, J. P., and Higgins, T. C., Prophylactic and Therapeutic Use of Sulfaquinoxaline against Coccidia of Chickens (*Eimeria tenella* and *E. necatrix*) under Field Conditions. *Poul. Sci.*, Vol. 27, No. 4, pp. 411-419, 1947.
- Grumbles, L. C., Delaplane, J. P., and Higgins, T. C., Continuous Feeding of Low Concentrations of Sulfaquinoxaline for the Control of Coccidiosis in Poultry. *Poul. Sci.*, Vol. 27, No. 5, pp. 605-608, 1948.
- Hart, C. P., and Higgins, T. C., The Effect of Certain Feed Supplements on Hatchability, Economy and Efficiency in Poultry Feeding. III. Condensed Distiller's Solubles, *Misc. Pub.* No. 34, 13 p., 1948.
- Hart, C. P., Higgins, T. C., and Wiley, W. H., The Effect of Condensed Fish Solubles as a Supplement to a Chick Ration. *Misc. Pub.* No. 35, 4 p. 1948.
- Howard, F. W., and Kerr, T. W., Jr., Control of Potato Pests in Rhode Island. *Misc. Pub.* No. 29. Revised. 4 p. 1948.
- Kerr, T. W., Jr., Control of the Cornfield Ant in Golf Greens. *Jour. Econ. Ent.*, Vol. 41, No. 1, pp. 48-52, February, 1948.
- Kerr, T. W., Jr., A *Phyllobius* Species as a New Pest and Its Control on Arborvitae. *Jour. Econ. Ent.*, Vol. 41, No. 2, pp. 331-332, 1948.
- Rich, A. E., and Odland, T. E., Fertilizer Placement for Silage Corn. *Proc. Soil Sci. Soc. Amer.*, Vol. 12, pp. 58-62, 1948.

- Salomon, M., and Smith, J. B., The Effect on Soil of Long-Continued Use of Nitrate of Soda and Sulfate of Ammonia as Single Nitrogen Sources. *Proc. Soil Sci. Soc. Amer.*, Vol. 12, pp. 296-299, 1948.
- Shutak, V. G., and Christopher, E. P., Prolonging Shelf Life of Plums with Carbon Dioxide. *Proc. Amer. Soc. Hort. Sci.*, Vol. 51, pp. 231-234, 1948.
- Tennant, J. L., The Providence Milk Market. *Agr. Exp. Sta. Bul.* 301. 1947.
- Sixtieth Annual Report of the Rhode Island Agricultural Experiment Station, 1948. (In press.)

SCHOOL OF AGRICULTURE:

- Brown, L. Guy, The Family as a Universal Cultural Pattern. *American Journal of Sociology*, v. LIII, p. 460-463, 1948.
- Brown, L. Guy, "Social Policies in the Making," by Paul H. Landis; Review in *Annals of American Academy of Political and Social Science*, v. 255, p. 213, 1948.
- Brown, L. Guy, "Youth in Trouble," by Austin L. Porterfield; Reviewed in *American Journal of Sociology*, v. 53, p. 77, 1948.
- Brown, L. Guy, "Opiate Addiction," by Alfred R. Lindesmith; Review in *Journal of Criminology and Criminal Law*, v. 39, No. 2; pp. 219-226, 1948.
- Schermerhorn, Richard A., Northern Ideology and Negro Political Action. Phylow, The Atlanta Journal of Race and Culture, Vol. 8, pp. 344-348, 1947.

SCHOOL OF ARTS AND SCIENCES:

- Bloom, Lillian D., Pope as Textual Critic. *The Journal of English and Germanic Philology*, April, 1948.
- Cheadle, Vernon I., Observations on the phloem in the Monocotyledoneae. *Amer. Jour. Bot.*, 35, pp. 129-131, 1948.
- Fuller, Thomas C., Effects of several sulfa-compounds on nuclear and cell division. *Bot. Gaz.*, 109:177-183, 1947.
- Hofford, Herbert M., The Community Newspaper—Last Frontier of a Free Press. R. I. Press Club, pamphlet, 1948.
- Reynolds, Paul E., A New Scholarship. *The News Letter of C.E.A.*, October, 1947.
- Wood, Richard D., On Rafinesque's nomenclature for the Characeae. *Bull. Torrey Bot. Club*, 75:282-285, 1948.

SCHOOL OF BUSINESS ADMINISTRATION:

- Ballentine, George A., Sales Quotas. *Marketing Handbook*, Ronald Press, 1948.
- Lindsay, T. K., Sales Territories. *Marketing Handbook*, Roland Press, 1948.
- Palmer, Herbert H., "Introduction to Advertising," 5th edition, McGraw-Hill Book Company, Inc., New York, 1947.
- Palmer, Herbert H., Teaching Objectives for a Course in Advertising at the Secondary School Level. *U. S. Business Educators' Forum*, April, 1948.
- Rockafellow, Robert, "Education and World Tragedy," by Howard Mumford Jones; Review in *Annals of American Academy of Political and Social Science*, Vol. 252, pp. 172-173, July, 1947.
- Rockafellow, Robert, "The Reconstruction of Humanity," by Pitrim Sorokin; Review in *Annals of American Academy of Political and Social Science*, Vol. 259, p. 165, September, 1948.
- Rockafellow, Robert, "Trouble Spots in Taxation," by Harold M. Groves; Review in *Annals of American Academy of Political and Social Science*, Vol. 259, p. 183, September, 1948.

SCHOOL OF ENGINEERING:

- Albright, John G., "College Physics"—Ronald Press, New York, 1948.

OFFICE OF THE PRESIDENT:

- Woodward, Carl R. Days of Decision—Charge to the Graduates, February 1, 1948 (pamphlet, p. 13-16).

Financial Report

I submit herewith the annual financial report of Rhode Island State College for the fiscal year ended June 30, 1948, consisting of the following:

Balance Sheet, June 30, 1948.....	Exhibit A
Summary of Revenue, Expenditures and Encumbrances, and Unencumbered Balances for the Year Ended June 30, 1948.....	Exhibit B
Summary of Income from Students.....	Schedule B-1
Summary of Income from Federal Grants	Schedule B-2
Statement of Funds Allotted, Expenditures, Encum- brances, and Unencumbered Balances.....	Schedule B-3
Auditor's Certificate	

Rhode Island State College ended its fiscal year with a balance of unencumbered funds of \$203,276.57, the detail of which is reflected in Exhibit B and related schedules. All of such funds, however, with the exception of \$88,208.18 are either restricted in use or have been reappropriated for special purposes. Following is a tabulation of unencumbered current fund balances and the purposes to which they are to be applied:

General funds:

Applied to the 1948-49 budget for general purposes.....	\$88,208.18	
Applied to the liquidation of college requisitions and vouchers in process as of June 30, 1948.....	33,195.73	
Balances reappropriated for specific purposes not included in the 1948-49 budget.....	11,400.00	
		<u>\$132,803.91</u>

Restricted funds:

State appropriations:

For water system.....	\$20,048.28	
For erection of Quonset huts.....	43.28	
		<u>20,091.56</u>

Federal funds:

For military activities	\$979.53	
For student housing	35,471.75	
For agricultural experiment station.....	9,767.18	
For agricultural extension service	4,162.64	
		<u>50,381.10</u>

Total	\$203,276.57
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It will be noted from the foregoing that the balance available for general purposes is \$88,208.18. This is \$46,791.82 under our estimated balance of \$135,000.00 to be applied against our 1948-49 budget. This will necessitate reductions in our present budget to prevent a deficit. Additional allotments cannot be made to any departments during the year and some items requested this year must be postponed.

Respectfully submitted,

STANLEY S. GAIRLOCH, *Controller and Treasurer*

Exhibit A

BALANCE SHEET, JUNE 30, 1948

ASSETS

CURRENT FUNDS:

Cash on deposit:

	<i>Total</i>	<i>General</i>	<i>Restricted</i>
State treasurer	\$ 287,548.91	\$ 181,048.32	\$ 106,500.59
College treasurer	35,314.39	35,314.39	
Total	322,863.30	216,362.71	106,500.59
Imprest cash fund.....	3,000.00	3,000.00	
Accounts receivable	118,354.74	116,769.68	1,585.06
Auxiliary enterprises:			
Bookstore:			
Cash	21,570.36	21,570.36	
Accounts receivable	4,121.18	4,121.18	
Inventory	28,664.64	28,664.64	
Dining units inventory.....	19,664.72	19,664.72	
Total	74,020.90	74,020.90	
Other current restricted funds:			
Cash	16,905.82		16,905.82
Investments (Schedule A-1).....	2,318.50		2,318.50
Total	19,224.32		19,224.32
Total current funds.....	537,463.26	410,153.29	127,309.97

SCHOLARSHIPS AND LOAN FUNDS:

Cash	7,157.33		7,157.33
Notes receivable	2,155.98		2,155.98
Investments (Schedule A-1).....	368.50		368.50
Total	9,681.81		9,681.81

PLANT FUNDS (No provision for depreciation):

Land	190,248.43	190,248.43	
Buildings	3,718,116.27	3,718,116.27	
Improvements	100,923.17	100,923.17	
Equipment	839,236.98	839,236.98	
Residences and dining halls.....	620,878.05	620,878.05	
Temporary housing facilities.....	270,383.06	270,383.06	
Total	5,739,785.96	5,739,785.96	

AGENCY FUNDS:

Cash	78,884.27		78,884.27
Investments (Schedule A-1).....	1,266.25		1,266.25
Total	80,150.52		80,150.52

TRUST FUND:

Cash	83,396.00		83,396.00
Uncollected pledges	13,462.20		13,462.20
Investments (Schedule A-1).....	1,052.00		1,052.00
Total	97,910.20		97,910.20

TOTAL ALL FUNDS.....\$ 6,464,991.75 \$ 6,149,939.25 \$ 315,052.50

NOTE: At June 30, 1948, the Board of Trustees of State Colleges was contingently liable for \$58,450.00 as guarantor of notes of ten college fraternities. The schedules noted in Exhibit A refer to detailed listings in the complete Financial Report filed with the Board of Trustees.

Exhibit A

BALANCE SHEET, JUNE 30, 1948
LIABILITIES

CURRENT FUNDS:

	<i>Total</i>	<i>General</i>	<i>Restricted</i>
Accounts payable — reserve for encumbrances	\$ 95,051.73	\$ 59,023.80	\$ 36,027.93
Accounts payable — auxiliary enterprises....	1,209.66	1,209.66	
Total	96,261.39	60,233.46	36,027.93

RESERVES:

Fees collected in advance.....	24,535.00	24,535.00	
Petty cash fund and unrealized income from accounts receivable.....	121,354.74	119,769.68	1,585.06
Auxiliary enterprises	72,811.24	72,811.24	
Other current restricted funds (Schedule A-2)	19,224.32		19,224.32
Total	237,925.30	217,115.92	20,809.38

Reappropriations and budgeted balances to be expended in 1948-49:

General purposes	108,299.74	88,208.18	20,091.56
Reappropriations (college requisitions, vouchers in process, etc.).....	34,595.73	34,595.73	
Federal agricultural experiment and extension service programs.....	60,381.10	10,000.00	50,381.10
Total (Exhibit B).....	203,276.57	132,803.91	70,472.66

Total current funds.....	537,463.26	410,153.29	127,309.97
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SCHOLARSHIP AND LOAN FUNDS:

Scholarship funds (Schedule A-3).....	2,253.94		2,253.94
Loan funds (Schedule A-4).....	7,427.87		7,427.87
Total	9,681.81		9,681.81

PLANT FUNDS:

Investment in plant facilities.....	5,739,785.96	5,739,785.96	
Total	5,739,785.96	5,739,785.96	

AGENCY FUNDS:

Research and fellowship funds (Schedule A-5)	27,248.77		27,248.77
Student organizations (Schedule A-6).....	15,821.73		15,821.73
Student activities (Schedule A-7).....	20,193.55		20,193.55
Fraternity accounts (Schedule A-8)	16,886.47		16,886.47
Total	80,150.52		80,150.52

TRUST FUND:

Reserve for uncollected pledges.....	13,462.20		13,462.20
Memorial building fund (Schedule A-9)....	84,448.00		84,448.00
Total	97,910.20		97,910.20

TOTAL ALL FUNDS.....	\$ 6,464,991.75	\$ 6,149,939.25	\$ 315,052.50
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Exhibit B

**SUMMARY OF
REVENUE, EXPENDITURES AND ENCUMBRANCES, AND
UNENCUMBERED BALANCES FOR THE YEAR ENDED
JUNE 30, 1948**

REVENUE:

State appropriations for general uses.....		\$ 835,000.00
College earnings:		
Income from students.....	\$ 654,836.52	
Departmental sales and services.....	133,716.30	
College and Kingston Inn dining units and soda fountain	408,407.23	1,196,960.05
Federal programs:		
Grants	259,288.45	
Experiment Station earnings.....	45,278.41	
Military activity fees.....	993.70	
Housing rentals	84,454.60	390,015.16
Reimbursements and recoveries:		
Veteran's Administration—books	65,742.64	
Bookstore salaries	14,599.84	
Other reimbursements and recoveries.....	12,192.89	92,535.37
Total revenue		2,514,510.58

ADD:

Prior year unexpended balances reappropriated for 1947- 1948 expenditure	378,422.36	
Prior year encumbrances lapsed and reencumbered for 1947- 1948 expenditure	74,301.46	452,723.82
Total available funds.....		2,967,234.40

DEDUCT:

Expenditures and encumbrances (Schedule B-3).....	2,763,957.83

UNEXPENDED BALANCES AVAILABLE FOR 1948-1949

EXPENDITURE, PER EXHIBIT A.....	\$ 203,276.57
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Schedule B-1

SUMMARY OF INCOME FROM STUDENTS For the Year Ended June 30, 1948

Tuition	\$ 246,266.65	
Fees	307,180.22	
Dormitory rentals	48,545.32	
General College extension.....	17,886.03	
Summer school tuition and fees.....	30,533.20	
Other charges and fees.....	4,425.10	
Total		\$ 654,836.52

Schedule B-2

SUMMARY OF INCOME FROM FEDERAL GRANTS For the Year Ended June 30, 1948

FOR INSTRUCTIONAL USES:

Morrill Act of 1890.....	\$ 50,000.00	
Morrill Act of 1862.....	1,772.50	
Bankhead-Jones	28,141.40	
George Dean Fund.....	4,375.00	\$ 84,288.90

FOR AGRICULTURAL EXPERIMENT STATION:

Hatch Act of 1887.....	14,866.86	
Adams Act of 1916.....	14,975.31	
Purnell Act of 1923.....	59,860.61	
Bankhead-Jones	2,653.11	
Research and Marketing Act of 1946.....	18,996.54	111,352.43

FOR AGRICULTURAL EXTENSION SERVICE:

Capper-Ketcham Act of 1928.....	20,171.98	
Smith-Lever and Bankhead-Jones Acts.....	37,141.68	
Bankhead-Flanagan Act	2,267.46	
Farm Labor Program.....	4,066.00	63,647.12

Total		\$ 259,288.45
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Exhibit B-3**STATEMENT OF EXPENDITURES AND ENCUMBRANCES**

	<i>Total Expenditures and Encumbrances</i>
ADMINISTRATION	
President's Office	\$ 19,007.19
Vice President's Office.....	12,168.43
Dean of Women	21,131.35
Dean of Men	8,945.89
Dean of Administration, Registrar and Admissions.....	34,888.59
Office of Controller.....	42,205.77
Purchasing and Housing Office.....	5,706.08
Public Relations Office	11,964.00
Alumni and Placement Office.....	17,562.43
Board of Trustees	276.75
Student Activities	5,550.00
General Administration	7,304.57
Total	<u>\$ 186,711.05</u>
SCHOOL OF AGRICULTURE	
Dean of Agriculture	\$ 9,670.49
Agricultural Economics	2,728.81
Horticulture and Packing House.....	37,192.87
Agronomy	4,294.29
Agricultural Chemistry	1,420.85
Sociology	11,100.77
Animal and Dairy Husbandry.....	73,926.79
Poultry Husbandry	9,450.80
Herd Testing	2,360.80
Feeds and Fertilizer.....	8,670.81
Forestry	2,073.86
Agricultural Engineering	4,403.88
Total	<u>\$ 167,295.02</u>
SCHOOL OF BUSINESS ADMINISTRATION	
Business Administration	\$ 76,192.98
Business Research	150.85
Total	<u>\$ 76,343.83</u>
SCHOOL OF ENGINEERING	
Dean of Engineering.....	\$ 13,410.94
Mechanical Engineering	47,690.42
Electrical Engineering	32,339.02
Civil Engineering	24,714.08
Chemical Engineering	15,976.30
Mathematics	26,585.21
Physics	35,436.48
Engineering Experiment Station.....	11,322.94
Engineering Repair Shop	4,291.66
Total	<u>\$ 211,767.05</u>

	<i>Total Expenditures and Encumbrances</i>
SCHOOL OF HOME ECONOMICS	
Home Economics	\$ 78,647.68
Nursing	5,277.66
Total	<u>\$ 83,925.34</u>

SCHOOL OF SCIENCE	
Bacteriology	\$ 11,750.23
Botany	21,916.73
Chemistry	63,373.43
Education and Psychology.....	18,821.51
English	50,194.15
History and Political Science.....	21,686.01
Modern Languages	14,895.38
Zoology	17,365.28
Geology and Geography.....	3,020.65
Music	13,024.29
Military, R.O.T.C.	602.15
Physical Education for Men.....	50,976.34
Physical Education for Women.....	10,553.22
Research (Science)	4,231.07
Marine Biology	1,084.61
Total	<u>\$ 303,495.05</u>

MISCELLANEOUS	
Library	\$ 47,446.72
Buildings and Grounds.....	448,282.10
Davis Hall Dormitory.....	404.34
Eleanor Roosevelt Hall Dormitory.....	1,724.11
East Hall Dormitory.....	388.22
Kingston Inn—rooms	3,159.10
Student Health	11,112.17
Summer School	29,050.40
Rhode Island State College Centers.....	61,000.79
General College Extension.....	60,322.91
Veterans' Program	83,545.48
Bookstore	14,597.50
Farm Labor Program.....	3,744.84
Egg Laying Contest.....	6,362.84
Purchase of Land.....	17,200.00
Prior Year Encumbrances.....	49,242.60
Dining Units	433,408.74
Total	<u>\$ 1,270,992.86</u>

RESTRICTED STATE APPROPRIATIONS	
Water System	\$ 69,951.72
Erection of Quonset huts.....	5,178.67
Total	<u>\$ 75,130.39</u>

	<i>Total Expenditures and Encumbrances</i>
FEDERAL HOUSING AND MILITARY PROGRAMS	
Military Activity	\$ 1,227.79
R. E. Smith Dormitory.....	21,015.01
Fort Kearney Housing Units.....	9,747.93
Quonset Huts	55,331.90
Total	\$ 87,322.63
FEDERAL EXPERIMENT STATION	
Hatch Fund	\$ 15,482.69
Adams Fund	15,000.00
Purnell Fund	60,327.13
Bankhead-Jones Fund	2,653.11
Experiment Station Earnings	56,525.69
Research and Marketing Act of 1946.....	15,235.39
State Offset Fund	34,986.01
Total	\$ 200,210.02
AGRICULTURAL EXTENSION SERVICE	
Smith-Lever and Bankhead-Jones Funds.....	\$ 39,848.47
Capper-Ketcham Fund	20,522.28
Bankhead-Flanagan Fund	4,417.74
Farm Labor Program	7,103.00
State Offset Fund.....	28,873.10
Total	\$ 100,764.59
TOTAL EXPENDITURES AND ENCUMBRANCES	\$ 2,763,957.83

ACCOUNTANTS' CERTIFICATE

O'BRIEN AND BURKE
Certified Public Accountants
New Industrial Trust Building, Providence

Board of Trustees of State Colleges,
State of Rhode Island and Providence Plantations:

We have examined the balance sheet of Rhode Island State College as of June 30, 1948 (Exhibit A and supporting Schedules) and the summary of revenue, expenditures and encumbrances, and unencumbered balances (Exhibit B and supporting Schedules B-1 to B-3) for the fiscal year then ended, have reviewed the system of internal control and the accounting procedures of the College and, without making a detailed audit of the transactions, have examined or tested accounting records of the College and other supporting evidence, by methods and to the extent we deemed appropriate.

In our opinion, based upon such examination, the accompanying balance sheet, supporting schedules, and related summary of revenue, expenditures and encumbrances, and unencumbered balances fairly present the position of Rhode Island State College at June 30, 1948, and the results of its operations for the fiscal year then ended.

/sgd/ O'BRIEN AND BURKE,
Certified Public Accountants

Providence
August 26, 1948

Raymond George Bressler

1887-1948

The college community was saddened by the death of Dr. Raymond G. Bressler, on May 9, 1948. He became the fourth president of the college in 1931 and led it through a decade of unprecedented development. From the time of his resignation in 1940 until his death, he continued to serve the state as Director of Agriculture and Conservation. The additions to the campus during his administration are a lasting testimonial to his vision and his zealous effort.